Mathematical Reviews

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Items with secondary classifications in 40D15

Sharma, Neeta *see* **Singh, Niranjan, 2002b:40006**
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40D20 Summability and bounded fields of methods

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40D25 Inclusion and equivalence theorems

Mishra, Babban Prasad (*with* Singh, Dinesh[2]) On (A_λ) summability methods of functions. (English summary) **2002g:40006**
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Singh, Dinesh[2] *see* **Mishra, Babban Prasad, 2002g:40006**

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Patel, N. V. *see* **Tripathi, Sanjay, 2002d:40005**
Singh, Dinesh[2] On a translated Cesàro type summability method. I. (English summary) **2002a:40003**
Tripathi, Sanjay (*with* Patel, N. V.) Almost increasing sequences and their applications. (English summary) **2002d:40005**

40Exx Inversion theorems

40E05 Tauberian theorems, general

Loone, Leiki (*with* Tali, Anne) Tauberian theorems for Bonsall core in sequence spaces. (English summary) **2002k:40006**
Martinez, Patrick The asymptotic behavior of a family of sequences via Tauberian theorems. (English summary) **2002g:40007**
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Heinrich, L. On the asymptotic behaviour of the integral $\int_0^\infty e^{itx}(\frac{1}{x^\alpha} - \frac{1}{(x^\alpha)+1})dx$ $(t \to 0)$ and rates of convergence to α-stable limit laws. (English summary) **2002h:60025**
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Leindler, László A new application of quasi power increasing sequences. (English summary) **2002a:40001**
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40E10 Growth estimates

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40F05 Absolute and strong summability

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Sulaiman, W. T. A generalization theorem covering many absolute summability methods. (English summary) **2002c:40009**
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40Gxx Special methods of summability

40G05 Cesàro, Euler, Nörlund and Hausdorff methods

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40G99 None of the above, but in this section

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40H05 Functional analytic methods in summability

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Menous, Frédéric Les bonnes moyennes uniformisantes et une application à la resommation réelle. (English and French summaries) [Good uniformizing averages and an application to real resummation] **2002b:40008**

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40J05 Summability in abstract structures [see also 43A55, 46A35, 46B15]

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41–02 Research exposition (monographs, survey articles)

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41–06 Proceedings, conferences, collections, etc.

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41A05 Interpolation [see also 42A15 and 65D05]

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Khlobystov, V. V. Interpolation formulas of Lagrange type in a Hilbert space that are invariant with respect to polynomials. (Russian. English and Ukrainian summaries) **2002j:41002**
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Pogány, Tibor K. Derivative uniform sampling via Weierstrass $\sigma(z)$. Truncation error analysis in $[2,\ \pi q/2s^2)$. (English summary) **2002a:41001**
Revers, Michael On the zero-divergence of equidistant Lagrange interpolation. (English summary) **2002h:41003**
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Shi, Ying Guang Truncated Hermite interpolation on an arbitrary system of nodes. (English summary) **2002b:41003**
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Xue, Ming Zhi Regularity and explicit representation of $(0,1,\dots,m-2,m)$-interpolation on the zeros of the Lashchenov polynomials. (Chinese. English and Chinese summaries) **2002a:41002**
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Boche, Holger Konvergenzverhalten der konjugierten Shannonschen Abtastreihe. (English summary) [Convergence behavior of the conjugate Shannon sampling series] **2002d:94020**
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Davidson, Timothy N. *see* **Zhang, Jian-Kang et al., 2002h:42079**
Davydov, Oleg (*with* Nürnberger, Günther; Zeilfelder, Frank) Bivariate spline interpolation with optimal approximation order. (English summary) **2002c:41012**
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Kubayi, D. G. Bounds for weighted Lebesgue functions for exponential weights. (English summary) **2002h:42048**
Lénárd, Margit Turán-type $(0,2)$-interpolation on the zeros of ultraspherical polynomials. II. (Convergence). (English summary) **2002h:41006**
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Maier, Ulrike An extension of elementary symmetric polynomials and power sums to the case of multivariate polynomials. (English summary) **2002j:13036**
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Wingren, Peter Characterization of the Zygmund space by shifted B-splines. (English summary) **2002f:41007**
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Yuan, Xue-gang (*with* Wang, De Hui) Approximation to continuous functions by a kind of interpolation polynomials. (English summary) **2002e:41010**
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Zhang, Jian-Kang (*with* Davidson, Timothy N.; Luo, Zhi-Quan; Wong, Kon Max) Design of interpolating biorthogonal multiwavelet systems with compact support. (English summary) **2002h:42079**

41A10 Approximation by polynomials {For approximation by trigonometric polynomials, see 42A10.}

Agratini, Octavian Binomial polynomials and their applications in approximation theory. (English summary) **2002i:41003**
Al-Bloush, Rateb Lagrange interpolation based on Chebyshev nodes. (English summary)
Almira, José María (*with* del Toro, Naira; Pérez Acosta, Francisco) Approximation of analytic functions in certain spaces. (Spanish. English summary) **2002m:41001**
Bakan, A. G. Polynomial density in $L_p(\mathbb{R}, d\mu)$ and representation of all measures which generate a determinate Hamburger moment problem. (English summary) **2002i:41004**
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— (*with* Xu, Yuan[1]) On a Hermite interpolation by polynomials of two variables. (English summary) **2002m:41002**
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Damelin, S. B. (*with* Jung, H. S.; Kwon, Kil Hyun) Convergence of Hermite and Hermite-Fejér interpolation of higher order for Freud weights. (English summary) **2002g:41004**
— (*with* Jung, H. S.; Kwon, Kil Hyun) Necessary conditions for weighted mean convergence of Lagrange interpolation for exponential weights. (English summary) **2002c:41005**
— (*with* Jung, H. S.; Kwon, Kil Hyun) A note on mean convergence of Lagrange interpolation in L_p $(0 < p \leq 1)$. (English summary) **2002g:41005**
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Coifman, Ronald R. Challenges in analysis. **2002h:94004**
Duchoň, Miloslav Survey of some topics of harmonic analysis. (English summary)
Favorov, S. Yu. (*with* Rashkovskiĭ, A. Yu.) Holomorphic almost-periodic functions. (English summary) **2002h:42012**
Ismail, Mourad E. H. Functional equations and electrostatic models for orthogonal polynomials. (English summary) **2002h:42046**
Jaffard, Stéphane (*with* Meyer, Yves; Ryan, Robert D.) ★ Wavelets. (English summary) **2002g:00007**
— Wavelet expansions, function spaces and multifractal analysis. (English summary) **2002f:42033**
Khavin, Viktor Petrovich On the uncertainty principle in harmonic analysis. (English summary) **2002k:42015**
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Walnut, David F. ★ An introduction to wavelet analysis. (English summary) **2002f:42039**
Weiss, Guido (*with* Wilson, E. N.) The mathematical theory of wavelets. (English summary) **2002h:42078**
Wilson, E. N. *see* **Weiss, Guido, 2002h:42078**
Yang, Shou Zhi *see* **Cheng, Zheng Xing et al.**
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42–03 Historical (must also be assigned at least one classification number from Section 01)

Kahane, Jean-Pierre Probabilities and Baire's theory in harmonic analysis. (English summary) **2002g:42002**

Items with secondary classifications in 42–03

Kantorovich, Leonid Vital'evich ★ Selected works. Part II. **2002e:01067**
(Kutateladze, S. S.) *see* **Kantorovich, Leonid Vital'evich, 2002e:01067**
(Romanovskiĭ, I. V.) *see* **Kantorovich, Leonid Vital'evich, 2002e:01067**
(Sosinskiĭ, A. B.) *see* **Kantorovich, Leonid Vital'evich, 2002e:01067**

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Collected Works:
Kantorovich, Leonid Vital'evich *see* **Kantorovich, Leonid Vital'evich, 2002e:01067**

42–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 42–04

Tasche, Manfred (*with* Zeuner, Hansmartin) Roundoff error analysis for fast trigonometric transforms. (English summary) **2002e:65209**
Zeuner, Hansmartin *see* **Tasche, Manfred, 2002e:65209**

42–06 Proceedings, conferences, collections, etc.

(Byrnes, James S.) *see* **Twentieth century harmonic analysis—a celebration, 2002d:42001**
(Deng, Donggao) *see* **Wavelet analysis and applications, 2002j:42002**
(Huang, Da Ren) *see* **Wavelet analysis and applications, 2002j:42002**
(Jia, Rong-Qing) *see* **Wavelet analysis and applications, 2002j:42002**
(Lin, Wei[1]) *see* **Wavelet analysis and applications, 2002j:42002**
(Wang, Jian Zhong[2]) *see* **Wavelet analysis and applications, 2002j:42002**

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Guangzhou ★ Wavelet analysis and applications. **2002j:42002**
Il Ciocco ★ Twentieth century harmonic analysis—a celebration. **2002d:42001**
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(Borichev, A. A.) *see* **Systems, approximation, singular integral operators, and related topics, 2002k:00031**
(Chihara, Theodore) *see* **Proceedings: Symposium on Orthogonal Polynomials, Special Functions and their Applications**
(Nikol'skiĭ, Nikolai K.) *see* **Systems, approximation, singular integral operators, and related topics, 2002k:00031**
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Special Issue:
Wavelets ★ Special issue on wavelets.
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Workshop:
Operator Theory and Applications ★ Systems, approximation, singular integral operators, and related topics. **2002k:00031**

42Axx Fourier analysis in one variable

Items with secondary classifications in 42Axx

Gröchenig, Karlheinz ★ Foundations of time-frequency analysis. (English summary) **2002h:42001**

42A05 Trigonometric polynomials, inequalities, extremal problems

Andreev, Nikolaĭ N. (*with* Konyagin, Sergei; Popov, A. Yu.) Letter to the editors: "Extremal problems for functions with small support" [Mat. Zametki **60** (1996), no. 3, 323–332, MR 98g:42002]. (Russian) **2002b:42002**
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Beriša, Muharem Č. (*with* Berisha, F. M.) A note on the inverse theorem for a generalised modulus of smoothness. (English and Macedonian summaries)
Berisha, F. M. *see* **Beriša, Muharem Č.**
Bourgain, Jean (*with* Kostyukovsky, S.; Olevskiĭ, A. M.) A remark on a maximal operator for Fourier multipliers. (English summary) **2002e:42001**
Brown, Gavin[1] (*with* Yin, Qinghe) Positivity of a class of cosine sums. (English summary) **2002c:42001**
Konyagin, Sergei (*with* Skopina, M. A.) Comparison of the L^1-norms of total and truncated exponential sums. (Russian. Russian summary) **2002f:42001**
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Koumandos, Stamatis Some inequalities for cosine sums. (English summary) **2002b:42003**
Leindler, László A note on some classes of real sequences. (English summary) **2002b:42004**
Olevskiĭ, A. M. *see* **Bourgain, Jean et al., 2002e:42001**
Popov, A. Yu. *see* **Andreev, Nikolaĭ N. et al., 2002b:42002**
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Yin, Qinghe *see* **Brown, Gavin[1], 2002c:42001**
Yudin, Vladimir Aleksandrovich Integral norms of trigonometric polynomials. (Russian. Russian summary) **2002k:42001**

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Alzer, Horst Inequalities for the constants of Landau and Lebesgue. (English summary) **2002j:26013**
Atzmon, Aharon The existence of translation invariant subspaces of symmetric self-adjoint sequence spaces on **Z**. (English summary) **2002a:46023**
Dragoshanskiĭ, O. S. Anisotropic norms of Dirichlet kernels and of some other trigonometric polynomials. (Russian. Russian summary) **2002b:42016**
Farahmand, K. (*with* Grigorash, A.) Complex zeros of trigonometric polynomials with standard normal random coefficients. (English summary) **2002g:60016**
Grigorash, A. *see* **Farahmand, K., 2002g:60016**
Gröchenig, Karlheinz (*with* Strohmer, Thomas) Numerical and theoretical aspects of nonuniform sampling of band-limited images. (English summary)
Hou, Xiang Qian *see* **Jin, Wei**
Jin, Wei (*with* Hou, Xiang Qian) A generalization of 2-periodic $(0, m)$ entire interpolation. (Chinese. English and Chinese summaries)
Mastroianni, Giuseppe (*with* Totik, Vilmos) Weighted polynomial inequalities with doubling and A_∞ weights. (English summary) **2002j:26010**
Runovskiĭ, K. V. (*with* Schmeisser, Hans-Jürgen) Inequalities of Calderon-Zygmund type for trigonometric polynomials. (English summary) **2002d:42011**
Saffari, Bahman Some polynomial extremal problems which emerged in the twentieth century. (English summary) **2002g:26001**
Schmeisser, Hans-Jürgen *see* **Runovskiĭ, K. V., 2002d:42011**

Strohmer, Thomas *see* **Gröchenig, Karlheinz**
Totik, Vilmos *see* **Mastroianni, Giuseppe, 2002j:26010**

42A10 Trigonometric approximation

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Al-Khaled, Kamel *see* **Al-Btoush, Rateb, 2002e:42002**
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Baltensperger, Richard Some results on linear rational trigonometric interpolation. (English summary) **2002k:42002**
Boche, Holger Verhalten der BMO-Norm der trigonometrischen Lagrangeinterpolation. (English summary) [Behavior of the BMO norm of trigonometric Lagrange interpolation] **2002j:42003**
Das, Gokulananda (*with* Nath, Anasuya; Ray, Braja Kishore) Degree of approximation of functions of bounded variation by a new trigonometric method of summation. (English summary) **2002k:42003**
Gal, Sorin G. *see* **Anastassiou, George A.**
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Il'yasov, N. A. On the order of approximation in the uniform metric by Fejér-Zygmund means in the classes $E_p[\varepsilon]$. (Russian. Russian summary) **2002g:42003**
Kim, Hyun Chull *see* **Kim, Tae-Sung, 2002d:42002**
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Konsevich, N. M. Best orthogonal trigonometric approximations of $L^{\psi}_{\beta,p}$ classes of functions of several variables. (Ukrainian. English and Ukrainian summaries) **2002b:42005**
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— (*with* Nigam, Hare Krishna) Degree of approximation of conjugate of a function belonging to $\mathrm{Lip}(\xi(t),p)$ class by matrix summability means of conjugate Fourier series. (English summary) **2002h:42003**
— (*with* Nigam, Hare Krishna) On degree of approximation of a Lipschitz function by $(N,p_n)(E,1)$ means of its Fourier series. (English summary)
Nath, Anasuya *see* **Das, Gokulananda et al., 2002k:42003**
Nersesyan, A. B. (*with* Oganesyan, N. V.) Quasiperiodic interpolation. (Russian. Armenian summary)
Nigam, Hare Krishna *see* **Lal, Shyam, 2002h:42003**
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Shvetsova, A. M. Approximation by Fourier partial sums and best approximation of some classes of functions. (Russian. English and Russian summaries) **2002k:42004**
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Yadav, Surendra Singh *see* **Lal, Shyam**

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Cools, Ronald (*with* Lyness, James N.) Three- and four-dimensional K-optimal lattice rules of moderate trigonometric degree. (English summary) **2002b:41026**
Đinh Dũng Asymptotic orders of optimal non-linear approximations. (English summary) **2002c:41019**
Driscoll, Tobin A. (*with* Fornberg, Bengt) A Padé-based algorithm for overcoming the Gibbs phenomenon. (English summary) **2002b:65007**
Fornberg, Bengt *see* **Driscoll, Tobin A., 2002b:65007**
Gardiner, Stephen J. Harmonic approximation and its applications. (English summary) **2002i:41025**
Goginava, U. Uniform convergence of N-dimensional trigonometric Fourier series. (English summary) **2002b:42015**
Han, Xu Li *see* **Wu, Xiao Qin**
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Korneĭchuk, N. P. (*with* Babenko, V. F.; Kofanov, V. A.; Pichugov, S. A.) Inequalities for the upper bounds of functionals, and some of their applications to approximation theory. (Russian. English summary) **2002d:41013**
Kvernadze, George Approximation of the singularities of a bounded function by the partial sums of its differentiated Fourier series. (English summary) **2002i:42001**
Ligun, A. A. (*with* Shumeĭko, A. A.) On a characterization of convex curves. (Russian. English summary) **2002c:41015**
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Medvedev, Aleksandr Vladislavovich Existence of an infinitely differentiable concave majorant of a modulus of continuity. (Russian. Russian summary) **2002j:41022**
Oswald, Peter Greedy algorithms and best m-term approximation with respect to biorthogonal systems. (English summary) **2002c:41037**
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Strohmer, Thomas Four short stories about Toeplitz matrix calculations. (English summary) **2002k:47060**
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42A15 Trigonometric interpolation

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Kel'zon, A. A. An error estimate for the trigonometric interpolation of functions of m-harmonic bounded variation. (Russian) **2002b:42008**
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Du, Jin Yuan *see* **Liu, Hua, 2002b:30041**
Liu, Hua (*with* Du, Jin Yuan) On trigonometric interpolation of analytic functions in uniformly distributed nodes. (English summary) **2002b:30041**

42A16 Fourier coefficients, Fourier series of functions with special properties, special Fourier series {For automorphic theory, see mainly 11F30.}

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Baez-Duarte, Luis Harmonic series summation lemma and Vasyunin's formulas. (Russian summary) **2002h:42004**
Bhatia, K. S. (*with* Sachan, M. P.) The strong summability of a Fourier series by $(C,1)$ and $(E,1)$ means. (Hindi. English and Hindi summaries)
Casazza, Peter G. (*with* Christensen, Ole; Kalton, Nigel J.) Frames of translates. (English summary) **2002f:42002**
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Gát, György Divergence of the $(C,1)$ means of d-dimensional Walsh-Fourier series. (English and Russian summaries) **2002j:42005**
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Skvortsov, Valentin On the problem of recovering the coefficients of convergent multiple trigonometric series. (English summary) **2002j:42006**
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Olofsson, Anders Continuous measures with large partial sums. (English summary) **2002h:43002**
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Pirsic, Gottlieb Korobov spaces with respect to digital orthonormal bases. (English summary) **2002e:42028**
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Valmorin, Vincent Some topological properties of the algebra of generalized hyperfunctions on the circle. (English summary) **2002c:46081**
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Yudin, Vladimir Aleksandrovich Multidimensional versions of Paley's inequality. (Russian. Russian summary) **2002m:42007**
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42A20 Convergence and absolute convergence of Fourier and trigonometric series

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42A45 Multipliers

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42A50 Conjugate functions, conjugate series, singular integrals

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42A55 Lacunary series of trigonometric and other functions; Riesz products

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42A61 Probabilistic methods

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42A63 Uniqueness of trigonometric expansions, uniqueness of Fourier expansions, Riemann theory, localization

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42A65 Completeness of sets of functions

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42A70 Trigonometric moment problems

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42A75 Classical almost periodic functions, mean periodic functions [see also 43A60]

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— Characterization of moment multisequences by a variation of positive definiteness. (English summary) **2002k:42017**
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Gneiting, Tilmann (*with* Sasvári, Zoltán; Schlather, Martin) Analogies and correspondences between variograms and covariance functions. (English summary) **2002g:86005**
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42A85 Convolution, factorization

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42A99 None of the above, but in this section

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Gabardo, Jean-Pierre Sampling theory for certain Hilbert spaces of bandlimited functions. (English summary)
Grafakos, Loukas (*with* Lennard, C. J.) Characterization of $L^p(\mathbf{R}^n)$ using Gabor frames. (English summary) **2002b:42045**
Gröchenig, Karlheinz Non-uniform sampling in higher dimensions: from trigonometric polynomials to bandlimited functions. (English summary)
Hinrichs, Aicke Hilbert space factorization and Fourier type of operators. (English summary) **2002c:47038**
Hounie, Jorge *see* **Berhanu, S., 2002f:35057**
Kirushev, V. A. (*with* Malozemov, V. N.; Pevnyĭ, A. B.) Wavelet decomposition of the space of discrete periodic splines. (Russian. Russian summary) **2002c:42052**
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42Bxx Fourier analysis in several variables {For automorphic theory, see mainly 11F30.}

42B05 Fourier series and coefficients

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Avdonin, Sergei (*with* Ivanov, Sergei A.) Riesz bases of exponentials and divided differences. (Russian. Russian summary) **2002g:42009**
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Bernuau, Guillaume (*with* Duneau, Michel) Fourier analysis of deformed model sets. **2002g:42010**
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Gröchenig, Karlheinz (*with* Heil, Christopher) Gabor meets Littlewood-Paley: Gabor expansions in $L^p(\mathbb{R}^d)$. (English summary) **2002b:42028**
Guichard, F. *see* **Malgouyres, François**, **2002k:94008**
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Helmberg, Gilbert Localization of a corner-point Gibbs phenomenon for Fourier series in two dimensions. (English summary) **2002k:42021**
Knoop, Hans-Bernd (*with* Zhou, Xinlong) Inequalities for trigonometric polynomials and some integral means. (English summary) **2002b:26012**
Lagarias, Jeffrey C. (*with* Szabó, Sándor) Universal spectra and Tijdeman's conjecture on factorization of cyclic groups. (English summary) **2002e:11107**
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Mitrea, Dorina (*with* Mitrea, Marius) General second order, strongly elliptic systems in low dimensional nonsmooth manifolds. **2002f:35078**
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Móricz, Ferenc Extension of a theorem of Ferenc Lukács from single to double conjugate series. (English summary) **2002k:42016**
Pedersen, Steen (*with* Wang, Yang[3]) Universal spectra, universal tiling sets and the spectral set conjecture. (English summary) **2002k:52030**
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— Strong convergence theorems for $H_p(\mathbb{T} \times \cdots \times \mathbb{T})$. (English summary) **2002a:42005**
Xiao, Jian Bo (*with* Cao, Guang Fu) Fourier coefficients of functions in $H^p(S)$. (Chinese. English and Chinese summaries) **2002h:32006**
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42B08 Summability

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Dragoshanskiĭ, O. S. Anisotropic norms of Dirichlet kernels and of some other trigonometric polynomials. (Russian. Russian summary) **2002b:42016**
Goginava, U. On the uniform summability of two-dimensional trigonometric Fourier series. (English and Georgian summaries) **2002c:42011**
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Safarova, R. G. Some questions of Riesz summability of multiple Fourier integrals. (English and Azerbaijani summaries) **2002e:42008**
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Tao, Terence C. On the maximal Bochner-Riesz conjecture in the plane for $p < 2$. (English summary) **2002k:42025**
Thangavelu, S. *see* **Narayanan, E. K.**, **2002f:42027**
Walther, Björn Gabriel Higher integrability for maximal oscillatory Fourier integrals. (English summary) **2002f:42021**
Weisz, Ferenc The maximal (C, α, β) operator on $H_p(T \times T)$. (English summary) **2002d:42023**
Zhu, Yue Ping Cesaro summability of Walsh-Fourier series on Hardy spaces and Herz spaces over the p-series fields. (English and Chinese summaries) **2002b:42039**

42B10 Fourier and Fourier-Stieltjes transforms and other transforms of Fourier type

Akhobadze, T. On convergence of spherical Riesz means of multiple Fourier series and Fourier integrals. (English and Georgian summaries)
Brandolini, Luca (*with* Iosevich, Alex; Travaglini, Giancarlo) Spherical means and the restriction phenomenon. (English summary) **2002e:42009**
— (*with* Colzani, Leonardo; Torlaschi, Andrea) Mean square decay of Fourier transforms in Euclidean and non Euclidean spaces. (English summary) **2002e:42010**
Colzani, Leonardo *see* **Brandolini, Luca et al.**, **2002e:42010**
Galkina, S. Yu. On Fourier-Haar coefficients of functions of several variables with bounded Vitali variation. (Russian. Russian summary) **2002k:42020**
García-Cuerva, José (*with* Kolyada, V. I.) Rearrangement estimates for Fourier transforms in L^p and H^p in terms of moduli of continuity. (English summary) **2002j:42014**
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Helmberg, Gilbert Localization of a corner-point Gibbs phenomenon for Fourier series in two dimensions. (English summary) **2002k:42021**
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Móricz, Ferenc Uniqueness of double Fourier-Stieltjes series. (English summary) **2002j:42015**
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Tleukhanova, N. T. On the Hardy and Bellman transforms for orthogonal Fourier series. (Russian) **2002k:42022**
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Barros-Neto, J. (*with* Cardoso, Fernando) Bessel integrals and fundamental solutions for a generalized Tricomi operator. (English summary) **2002j:35006**
Bejancu, Aurelian, Jr. A new approach to semi-cardinal spline interpolation. (English summary) **2002g:41013**
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Boche, Holger Verhalten der BMO-Norm der trigonometrischen Lagrangeinterpolation. (English summary) [Behavior of the BMO norm of trigonometric Lagrange interpola-

tion] **2002j:42003**
Bownik, Marcin Inverse volume inequalities for matrix weights. (English summary) **2002m:47043**
Cardoso, Fernando *see* **Barros-Neto, J., 2002j:35006**
zu Castell, Wolfgang On a theorem of T. Gneiting on α-symmetric multivariate characteristic functions. (English summary) **2002a:33008**
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Dragoshanskiĭ, O. S. On the convergence of double Fourier series and Fourier integrals of functions on T^2 and $\mathbb{R}^2$ under rotations of the coordinate system. (Russian. Russian summary) **2002c:42009**
Fenton, P. C. Subharmonic functions and a Tauberian theorem for Hilbert transforms. (English summary) **2002h:31001**
Fujita, Keiko Entire eigenfunctions of the Laplacian of exponential type with respect to the Lie norm and the dual Lie norm. (English summary) **2002d:32002**
Gillespie, Thomas Alastair (*with* Pott, Sandra; Treil′, S.; Vol′berg, A.) Logarithmic growth for matrix martingale transforms. (English summary) **2002k:47066**
Grünbaum, F. Alberto Bessel functions of two variables: some power series and plots. (English summary) **2002f:33019**
Hofmann, Steve (*with* Lewis, John L.) Square functions of Calderón type and applications. (English summary) **2002g:47067**
Kolyada, V. I. Embeddings of fractional Sobolev spaces and estimates for Fourier transformations. (Russian. Russian summary) **2002k:46080**
Lau, Ka-Sing (*with* Ngai, Sze-Man; Rao, Hui) Iterated function systems with overlaps and self-similar measures. (English summary) **2002c:28016**
Lewis, John L. *see* **Hofmann, Steve, 2002g:47067**
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Zastavnyĭ, V. P. On positive definiteness of some functions. (English summary) **2002b:42017**

42B15 Multipliers

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Gilbert, John E. (*with* Nahmod, Andrea R.) Boundedness of bilinear operators with nonsmooth symbols. (English summary) **2002e:42011**
– (*with* Nahmod, Andrea R.) Bilinear operators with non-smooth symbol. I. (English summary) **2002m:42009**
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Himonas, A. Alexandrou (*with* Misiołek, Gerard) A priori estimates for Schrödinger type multipliers. (English summary) **2002j:42018**
Kim, Yong-Cheol Quasiradial Fourier multipliers and their maximal operators. (English summary) **2002c:42014**
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Mockenhaupt, Gerd Some remarks on oscillatory integrals. **2002k:42023**
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Runovskiĭ, K. V. (*with* Schmeisser, Hans-Jürgen) Inequalities of Calderon-Zygmund type for trigonometric polynomials. (English summary) **2002d:42011**
Sato, Shuichi[1] *see* **Fan, Da Shan, 2002c:42013**
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42Cxx Nontrigonometric Fourier analysis

42C05 Orthogonal functions and polynomials, general theory [see also 33C45, 33C50, 33D45]

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43A07 Means on groups, semigroups, etc.; amenable groups

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43A10 Measure algebras on groups, semigroups, etc.

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43A15 L^p-spaces and other function spaces on groups, semigroups, etc.

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43A17 Analysis on ordered groups, H^p-theory

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43A20 L^1-algebras on groups, semigroups, etc.

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43A22 Homomorphisms and multipliers of function spaces on groups, semigroups, etc.

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43A25 Fourier and Fourier-Stieltjes transforms on locally compact abelian groups

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43A32 Other transforms and operators of Fourier type

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43A40 Character groups and dual objects

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43A45 Spectral synthesis on groups, semigroups, etc.

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43A46 Special sets (thin sets, Kronecker sets, Helson sets, Ditkin sets, Sidon sets, etc.)

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43A55 Summability methods on groups, semigroups, etc. [see also 40J05]

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43A60 Almost periodic functions on groups and semigroups and their generalizations (recurrent functions, distal functions, etc.); almost automorphic functions

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43A62 Hypergroups

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43A65 Representations of groups, semigroups, etc. [see also 22A10, 22A20, 22Dxx, 22E45]

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43A70 Analysis on specific locally compact abelian groups [see also 11R56, 22B05]

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43A75 Analysis on specific compact groups

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43A77 Analysis on general compact groups

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43A80 Analysis on other specific Lie groups [see also 22Exx]

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44A20 Transforms of special functions

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44A30 Multiple transforms

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44A35 Convolution

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44A40 Calculus of Mikusiński and other operational calculi

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44A45 Classical operational calculus

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45D05 Volterra integral equations [see also 34A12]

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45E99 None of the above, but in this section

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45Fxx Systems of linear integral equations

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45G15 Systems of nonlinear integral equations

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Shkarin, S. A. On stratifiable locally convex spaces. (English summary) **2002c:46005**

46A08 Barrelled spaces, bornological spaces

Aamri, M. (*with* Chaira, K.) Espaces super-ultratonnelés. (English summary) [Super-ultrabarrelled spaces] **2002f:46005**
Al-Ghamdi, Mohammed Ali *see* **Al-Hadab, Saher Abdullah Salman et al., 2002e:46003**
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Aqzzouz, Belmesnaoui Généralisations du théorème de Bartle-Graves. (English and French summaries) [Generalizations of the Bartle-Graves theorem] **2002k:46009**
Blali, A. *see* **Ameziane Hassani, Rachid, 2002k:46017**
Chaira, K. *see* **Aamri, M., 2002c:22001**
Swartz, Charles Topological properties of the space of integrable functions with respect to a charge. (English summary) **2002h:28002**

46A11 Spaces determined by compactness or summability properties (nuclear spaces, Schwartz spaces, Montel spaces, etc.)

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46A13 Spaces defined by inductive or projective limits (LB, LF, etc.) [see also 46M40]

García-Martínez, Armando Strictly webbed spaces and regularity properties of inductive limits. (English summary) **2002j:46002**
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Yan, Cong-Hua Projective limit of L-fuzzy locally convex topological vector spaces. (English summary) **2002a:46105**

46A16 Not locally convex spaces (metrizable topological linear spaces, locally bounded spaces, quasi-Banach spaces, etc.)

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Farkas, Tibor (*with* Száz, Árpád) Minkowski functionals of summative sequences of absorbing and balanced sets. (English summary) **2002d:46003**
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— *see also* **Chahboun, M. et al., 2002i:46041**
Fang, Jin Xuan *see* **Yan, Cong-Hua, 2002j:46094**
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Yan, Cong-Hua (*with* Fang, Jin Xuan) Generalization of Kolmogoroff's theorem to L-topological vector spaces. (English summary) **2002j:46094**

46A17 Bornologies and related structures; Mackey convergence, etc.

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García-Martínez, Armando Strictly webbed spaces and regularity properties of inductive limits. (English summary) **2002j:46002**
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46A19 Other "topological" linear spaces (convergence spaces, ranked spaces, spaces with a metric taking values in an ordered structure more general than R, etc.)

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Fang, Jin Xuan (*with* Yan, Cong-Hua) Induced $I(L)$-fuzzy topological vector spaces. (English summary) **2002c:46008**
Pochcial, Jan On extensions of convergences. (English summary) **2002b:46008**
Rusu, Danut Topologies generated by $\mathcal{D}$-complete σ-ideals. **2002d:46004**
Yan, Cong-Hua *see* **Fang, Jin Xuan, 2002c:46008**
Zhang, Zhi Yao Generalized compatible topology and sequential compatible topology. (Chinese. English and Chinese summaries) **2002h:46002**

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Butzmann, H.-P. Duality theory for convergence groups. (English summary) **2002b:22002**
Casevitz, Pierre Espaces de suites réelles complètement métrisables. (English summary) [Completely metrizable spaces of real sequences] **2002h:46007**
Cho, Min-hyung *see* **Wu, Jun De et al., 2002c:46006**
Cho, Yeol Je (*with* Matić, M.; Pečarić, Josip E.) On Gram's determinant in 2-inner product spaces. (English summary) **2002k:46060**
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Ganiev, I. G. Measurable bundles of Banach lattices. (Russian. English and Uzbek summaries) **2002f:46040**
Gunawan, Hendra On n-inner products, n-norms, and the Cauchy-Schwarz inequality. (English summary) **2002m:46034**
Hikida, Masato A note on Taylor's formula. II. (English summary) **2002b:46072**
Kudaĭbergenov, K. K. Measurable bundles of continuous mappings of cyclic compacta. (Russian. English and Uzbek summaries) **2002f:46041**
Kusraev, A. G. ★ Булевозначный анализ инволютивных банаховых алгебр. (Russian. Russian summary) [Boolean-valued analysis of involutive Banach algebras] **2002a:46071**
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Palomar Tarancón, J. E. Vector spaces over function fields. Vector spaces over analytic function fields being associated to ordinary differential equations. (English summary) **2002c:46141**
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Xiao, Jian Zhong (*with* Zhu, Xing Hua) On linearly topological structure and property of fuzzy normed linear space. (English summary) **2002k:46196**
Yan, Cong-Hua Inductive topologies of L-fuzzy topological vector spaces. (English and Chinese summaries) **2002i:46077**
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46A20 Duality theory

Items with secondary classifications in 46A20

Aliprantis, Charalambos D. (*with* Tourky, Rabee) The super order dual of an ordered vector space and the Riesz-Kantorovich formula. (English summary) **2002k:46011**
Ambrozie, Călin-Grigore (*with* Müller, Vladimír) Duality in quotient Banach spaces. **2002d:47002**
Ameziane Hassani, Rachid (*with* Babahmed, M.) Topologies polaires compatibles avec une dualité séparante sur un corps valué non-archimédien. (English summary) [Polar topologies compatible with a separated duality over a non-Archimedean valuation field] **2002h:46124**
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Gröger, Konrad (*with* Recke, Lutz) Preduals of Sobolev-Campanato spaces. (English summary) **2002e:46037**
Gutman, A. E. (*with* Koptev, A. V.) On the concept of a dual Banach bundle. (Russian. Russian summary) **2002d:46015**
Koptev, A. V. *see* **Gutman, A. E., 2002d:46015**
Livshits, Leo (*with* Ong, S.-C.; Wang, Sheng Wang) Banach space duality of absolute Schur algebras. (English summary) **2002f:46087**
Müller, Vladimír *see* **Ambrozie, Călin-Grigore, 2002d:47002**
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Recke, Lutz *see* **Gröger, Konrad, 2002e:46037**
Tourky, Rabee *see* **Aliprantis, Charalambos D., 2002k:46011**
Wang, Sheng Wang *see* **Livshits, Leo et al., 2002f:46087**

46A22 Theorems of Hahn-Banach type; extension and lifting of functionals and operators [see also 46M10]

Bhattacharya, S. *see* **Lal, Shiva Narain et al., 2002g:46004**
Cabello Sánchez, Félix (*with* Castillo, Jesús M. F.; Sánchez Fernández, Fernando) Nonlinear metric projections in twisted twilight. (English summary) **2002j:46004**
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Páles, Zsolt Separation theorems for convex sets and convex functions with invariance properties. (English summary) **2002e:46005**
Pan, Wen Xi *see* **Wang, Qi, 2002c:46009**
Sánchez Fernández, Fernando *see* **Cabello Sánchez, Félix et al., 2002j:46004**
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Castillo, Jesús M. F. (*with* García González, Ricardo; Jaramillo, Jesús A.) Extension of bilinear forms on Banach spaces. (English summary) **2002i:46017**

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Delhommé, Christian (*with* Morillon, Marianne) Dependent choices and weak compactness. (English summary) **2002k:03083**
Dudek, Zbigniew From isotonic Banach functionals to coherent risk measures. (English summary) **2002m:91042**
Fu, Xiao Hong The extension theorem of continuous homogeneous functions in real topological vector spaces. (Chinese. English and Chinese summaries) **2002k:46111**
García González, Ricardo *see* **Castillo, Jesús M. F. et al., 2002i:46017**
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Liu, San Yang *see* **Sheng, Bao Huai et al., 2002m:47068**
Mao, Hua *see* **Sheng, Bao Huai et al., 2002m:47068**
Mezrag, Lahcène Counterexample to a theorem of extension. (English summary) **2002e:47039**
Morillon, Marianne *see* **Delhommé, Christian, 2002k:03083**
Muntean, Ioan On the convexity of supported sets. (English summary) **2002e:46092**
Niculescu, Miron (*with* Olteanu, Octav) Applications of two sandwich theorems for linear operators to the moment problem in spaces of analytic functions. (English summary) **2002c:47033**
Olteanu, Octav *see* **Niculescu, Miron, 2002c:47033**
Ostrovskiĭ, M. I. Hahn-Banach operators. (English summary) **2002e:46018**
Qiu, Jing Hui Local completeness and drop theorem. (English summary) **2002k:46003**
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Xiao, Jian Zhong Hahn-Banach theorem for fuzzy normed spaces. (Chinese. English and Chinese summaries) **2002m:46112**

46A25 Reflexivity and semi-reflexivity [see also 46B10]

Items with secondary classifications in 46A25

Gök, Ömer On reflexivity of closed unital subalgebras in locally convex spaces. **2002f:46116**

46A30 Open mapping and closed graph theorems; completeness (including B-, B_r-completeness)

Al-Sayyad, Siham Jalal Sequentially continuous mappings and sequentially closed graphs. (English summary) **2002j:46005**
Aqzzouz, Belmesnaoui Généralisations du théorème de Bartle-Graves. (English and French summaries) [Generalizations of the Bartle-Graves theorem] **2002k:46009**
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Ferrer Villanueva, José R. (*with* López Pellicer, M.; Sánchez Ruiz, L. M.) Ptàk homomorphism theorem revisited. (English summary) **2002a:46001**
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Qiu, Jing Hui A closed graph theorem for semi-reflexive spaces. (Chinese. English and Chinese summaries) **2002f:46006**
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— (*with* Chaira, K.) Espaces super-ultratonnelés. (English summary) [Super-ultrabarrelled spaces] **2002f:46005**
Al-Ghamdi, Mohammed Ali *see* **Al-Hadab, Saher Abdullah Salman et al., 2002e:46003**
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Khaleelulla, S. M. *see* **Al-Hadab, Saher Abdullah Salman et al., 2002e:46003**
Kučera, Jan Sequential completeness of LF-spaces. (English summary) **2002b:46007**
Qiu, Jing Hui Local completeness and dual local quasi-completeness. (English summary) **2002b:46006**
— Local completeness and drop theorem. (English summary) **2002k:46003**

46A32 Spaces of linear operators; topological tensor products; approximation properties [see also 46B28, 46M05, 47L05, 47L20]

Adam, Eva C. Bornologicity of certain spaces of bounded linear operators. (English summary) **2002e:46006**
Beien, Ulrike (*with* Dierolf, Susanne) An elementary approach to the category of locally convex operator spaces. (English summary) **2002h:46003**
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46A35 Summability and bases [see also 46B15]

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46A50 Compactness in topological linear spaces; angelic spaces, etc.

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46A55 Convex sets in topological linear spaces; Choquet theory [see also 52A07]

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46A63 Topological invariants ((DN), (Ω), etc.)

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Vogt, Dietmar *see* **Domański, Paweł, 2002m:46036**

46A70 Saks spaces and their duals (strict topologies, mixed topologies, two-norm spaces, co-Saks spaces, etc.)

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46A80 Modular spaces

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46Bxx Normed linear spaces and Banach spaces; Banach lattices {For function spaces, see 46Exx.}

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46B03 Isomorphic theory (including renorming) of Banach spaces

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46B04 Isometric theory of Banach spaces

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46B08 Ultraproduct techniques in Banach space theory [see also 46M07]

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46B10 Duality and reflexivity [see also 46A25]

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46B15 Summability and bases [see also 46A35]

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46B70 Interpolation between normed linear spaces [see also 46M35]

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46Cxx Inner product spaces and their generalizations, Hilbert spaces {For function spaces, see 46Exx.}

46C05 Hilbert and pre-Hilbert spaces: geometry and topology (including spaces with semidefinite inner product)

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Kandelaki, N. P. *see* **Vakhaniya, Nikolai Nikolaevich, 2002k:46062**
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Rassias, Themistocles M. (*with* Saitoh, Saburou) The Pythagorean theorem and linear mappings. (English summary) **2002m:46033**
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Corach, Gustavo (*with* Maestripieri, Alejandra L.) Positive operators on Hilbert space: a geometrical view point. (English and Spanish summaries) **2002j:46070**
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46C07 Hilbert subspaces (= operator ranges); complementation (Aronszajn, de Branges, etc.) [see also 46B70, 46M35]

Items with secondary classifications in 46C07

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Paulsen, Vern I. (*with* Singh, Dinesh[1]) A Helson-Lowdenslager-de Branges theorem in L^2. (English summary) **2002b:46038**
Rodman, Leiba (*with* Zobin, Nahum) Linear preservers of isomorphic types of lattices of invariant operator ranges. (English summary) **2002d:47054**
Roşca, Ioan A general construction of the energetical space for a linear operator. (English summary) **2002c:47007**
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46C15 Characterizations of Hilbert spaces

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Kannappan, Palaniappan On inner product spaces. V. (English summary) **2002g:46034**
Navarro, M. A. A note on extreme operators on finite-dimensional Banach spaces. (Spanish. Spanish summary)
Pan, Wen Xi *see* **Xu, Jing Shi**
Rätz, Jürg Charakterisierung von Skalarprodukträumen: Dimension 2 versus Dimension ≥ 3. (English summary) [Characterization of scalar product spaces: dimension 2 versus dimension ≥ 3] **2002e:46025**
Xu, Jing Shi (*with* Pan, Wen Xi) Shortest perpendicularity of central line and characteristics of inner product spaces. (Chinese. English and Chinese summaries)
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Baronti, Marco (*with* Papini, Pier Luigi) Remotal sets revisited. (English summary) **2002c:46020**
Benítez, Carlos (*with* Fernández García-Hierro, Manuel; Soriano, María L.) Location of the 2-centers of three points. (English summary) **2002h:46022**
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Papini, Pier Luigi *see* **Baronti, Marco, 2002c:46020**
Rätz, Jürg Cauchy functional equation problems concerning orthogonality. (English summary) **2002g:39021**
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Tang, Wai-Shing *see* **Aldroubi, Akram et al., 2002c:42046**

46C20 Spaces with indefinite inner product (Kreĭn spaces, Pontryagin spaces, etc.) [see also 47B50]

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Azizov, T. Ya. (*with* Senderov, V. A.; Khatskevich, V. A.) On the geometry of J-spaces and the properties of inverting operators. (Russian)
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Khatskevich, V. A. (*with* Senderov, V. A.) The Abel-Schröder equation for linear-fractional mappings of operator balls. (Russian) **2002j:47065**
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de Snoo, H. S. V. *see* **Alpay, Daniel et al., 2002a:46028**

46C50 Generalizations of inner products (semi-inner products, partial inner products, etc.)

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Lokesha, V. *see* **Gowda, Huche, 2002m:47004**

46C99 None of the above, but in this section

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Dragomir, Sever Silvestru *see* **Kim, Seong Sik et al., 2002j:46033**
Kim, Seong Sik (*with* Dragomir, Sever Silvestru; White, Albert George, Jr.; Cho, Yeol Je) On the Gruss type inequality in 2-inner product spaces and applications. (English summary) **2002j:46033**
White, Albert George, Jr. *see* **Kim, Seong Sik et al., 2002j:46033**

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Amir-Moéz, Ali R. (*with* Rassias, Themistocles M.) Some elementary properties of linear transformations. (English summary) **2002e:15001**
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Ciatti, Paolo Scalar products on Clifford modules and pseudo-H-type Lie algebras. (English summary) **2002f:17014**
Dragomir, Sever Silvestru Integral Grüss inequality for mappings with values in Hilbert spaces and applications. (English summary) **2002h:26036**
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Lewandowska, Zofia Linear operators on generalized 2-normed spaces. (English summary) **2002k:47005**
Mirzakhanyan, È. A. Modified retracts in Hilbert spaces. (Russian. English and Russian summaries) **2002h:57032**
— On some types of infinite-dimensional homotopy groups in a Hilbert space. (Russian. Armenian summary) **2002e:55013**
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Rivière, Alain Dimension de Hausdorff de la nervure. (English and French summaries) [Hausdorff dimension of ribs] **2002j:28010**
Rudolph, Oliver Super Hilbert spaces. (English summary) **2002a:46024**
Su, Yong Fu On definition of probabilistic inner product space. (English and Chinese summaries)
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Xiao, Jian Zhong On linearly topological structure and orthogonality of Menger probabilistic inner product spaces. (English and Chinese summaries) **2002f:46152**

46Exx Linear function spaces and their duals {For function algebras, see 46J10.}

(Fujii, Nobuhiko) *see* **Uchiyama, Akihito, 2002d:46021**
(Jones, Peter Wilcox) *see* **Uchiyama, Akihito, 2002d:46021**
(Miyachi, Akihiko) *see* **Uchiyama, Akihito, 2002d:46021**
Uchiyama, Akihito ★ Hardy spaces on the Euclidean space. (English summary) **2002d:46021**
(Yabuta, Kôzô) *see* **Uchiyama, Akihito, 2002d:46021**

Items with secondary classifications in 46Exx

Weaver, Nikolai ★ Lipschitz algebras. **2002g:46002**

46E05 Lattices of continuous, differentiable or analytic functions

Edwards, David Albert On lattices of continuous functions on a Stonian space. (English summary) **2002m:46035**
Haydon, R. G. (*with* Jayne, J. E.; Namioka, I.; Rogers, C. Ambrose) Continuous functions on totally ordered spaces that are compact in their order topologies. (English summary) **2002k:46063**
Jayne, J. E. *see* **Haydon, R. G. et al., 2002k:46063**
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Timofte, Vlad Representation of abstract (M)-spaces with a strong positive cone. (English summary) **2002k:46012**

46E10 Topological linear spaces of continuous, differentiable or analytic functions

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— (*with* Aytuna, Aydin; Djakov, Plamen) Generalization of a theorem of Bohr for bases in spaces of holomorphic functions of several complex variables. (English summary) **2002c:46046**
Araujo, Jesús (*with* Jarosz, Krzysztof) Isometries of spaces of unbounded continuous functions. (English summary) **2002e:46026**
Aytuna, Aydin *see* **Aizenberg, L. A. et al., 2002c:46046**
Bonet, José (*with* Galbis, Antonio; Momm, Siegfried) Nonradial Hörmander algebras of several variables and convolution operators. (English summary) **2002d:46022**
Djakov, Plamen *see* **Aizenberg, L. A. et al., 2002c:46046**
Domański, Paweł (*with* Vogt, Dietmar) Linear topological properties of the space of analytic functions on the real line. (English summary) **2002m:46036**
Frerick, Leonhard (*with* Vogt, Dietmar) Analytic extension of differentiable functions defined in closed sets by means of continuous linear operators. (English summary) **2002m:46037**
Galbis, Antonio *see* **Bonet, José et al., 2002d:46022**
Goncharov, A. P. On the explicit form of an extension operator for C^∞-functions. (English summary) **2002j:46034**
Jarchow, H. (*with* Montesinos Santalucía, Vicente; Wirths, Karl-Joachim; Xiao, Jie[1]) Duality for some large spaces of analytic functions. (English summary) **2002m:46038**
Jarosz, Krzysztof *see* **Araujo, Jesús, 2002e:46026**
Khabibullin, B. N. Dual representation of superlinear functionals and its applications in the theory of functions. I. (Russian. Russian summary) **2002g:46035**
Kim, V. È. *see* **Napalkov, V. V., Jr., 2002j:46035**
Momm, Siegfried *see* **Bonet, José et al., 2002d:46022**
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Schmets, Jean (*with* Valdivia, Manuel) Extension maps in ultradifferentiable and ultraholomorphic function spaces. (English summary) **2002b:46036**
Trombetta, Giulio The measures of nonconvex total boundedness and of nonstrongly convex total boundedness for subsets of L_0. (English summary) **2002b:46037**
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46E22 Hilbert spaces with reproducing kernels (= [proper] functional Hilbert spaces, including de Branges-Rovnyak and other structured spaces) [see also 47B32]

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46E25 Rings and algebras of continuous, differentiable or analytic functions {For Banach function algebras, see 46J10, 46J15.}

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46E27 Spaces of measures [see also 28A33, 46Gxx]

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46E30 Spaces of measurable functions (L^p-spaces, Orlicz spaces, Köthe function spaces, Lorentz spaces, rearrangement invariant spaces, ideal spaces, etc.)

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46F20 Distributions and ultradistributions as boundary values of analytic functions [see also 30D40, 30E25, 32A40]

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46Gxx Measures, integration, derivative, holomorphy (all involving infinite-dimensional spaces) [see also 28–XX, 46Txx]

46G05 Derivatives [see also 46T20, 58C20, 58C25]

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46G10 Vector-valued measures and integration [see also 28Bxx, 46B22]

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46G12 Measures and integration on abstract linear spaces [see also 28C20, 46T12]

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46G15 Functional analytic lifting theory [see also 28A51]

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46G20 Infinite-dimensional holomorphy [see also 32–XX, 46E50, 46T25, 58B12, 58C10]

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46G25 (Spaces of) multilinear mappings, polynomials [see also 46E50, 46G20, 47H60]

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46H05 General theory of topological algebras

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46H15 Representations of topological algebras

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46H25 Normed modules and Banach modules, topological modules (if not placed in 13–XX or 16–XX)

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46H30 Functional calculus in topological algebras [see also 47A60]

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46H35 Topological algebras of operators [See mainly 47Lxx]

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46H40 Automatic continuity

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46H70 Nonassociative topological algebras [see also 46K70, 46L70]

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46H99 None of the above, but in this section

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46Jxx Commutative Banach algebras and commutative topological algebras [see also 46E25]

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46J05 General theory of commutative topological algebras

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46J10 Banach algebras of continuous functions, function algebras [see also 46E25]

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46J15 Banach algebras of differentiable or analytic functions, H^p-spaces [see also 30D55, 30H05, 32A35, 32A37, 32A38, 42B30]

Allan, G. R. (*with* Kakiko, G.; O'Farrell, A. G.; Watson, R. O.) Localness of $A(\Psi)$ algebras. (English summary) **2002k:46129**
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Izuchi, Keiji Douglas algebras which admit codimension 1 linear isometries. (English summary) **2002c:46102**
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Nicolau, Artur (*with* Pau, Jordi) Closures of finitely generated ideals in Hardy spaces. (English summary) **2002f:46099**
O'Farrell, A. G. *see* **Allan, G. R. et al., 2002k:46129**
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Rudol, Krzysztof Some results related to Beurling's theorem. (English summary) **2002e:46058**
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Suárez, Daniel On the analytic structure of the H^∞ maximal ideal space. (English summary) **2002f:46100**
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Thilliez, Vincent On closed ideals in smooth classes. (English summary) **2002f:46101**
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Bastos, M. A. (*with* Karlovich, Yu. I.; dos Santos, A. F.) The invertibility of convolution type operators on a union of intervals and the corona theorem. (English summary) **2002g:47050**
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46K50 Nonselfadjoint (sub)algebras in algebras with involution

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46L85 Noncommutative topology [see also 58B32, 58B34, 58J22]

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46M05 Tensor products [see also 46A32, 46B28, 47A80]

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46M18 Homological methods (exact sequences, right inverses, lifting, etc.)

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46M20 Methods of algebraic topology (cohomology, sheaf and bundle theory, etc.) [see also 14F05, 18Fxx, 19Kxx, 32Cxx, 32Lxx, 46L80, 46M15, 46M18, 55Rxx]

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46N50 Applications in quantum physics

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46N55 Applications in statistical physics

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Matsui, Taku The split property and the symmetry breaking of the quantum spin chain. (English summary) **2002f:46137**
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Prodan, E. (*with* Nordlander, P.) Hartree approximation. I. The fixed point approach. (English summary) **2002j:82019**
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46N60 Applications in biology and other sciences

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46N99 None of the above, but in this section

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46Sxx Other (nonclassical) types of functional analysis [see also 47Sxx]

46S10 Functional analysis over fields other than R or C or the quaternions; non-Archimedean functional analysis [see also 12J25, 32P05]

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Katsaras, A. K. (*with* Benekas, V.) On weighted inductive limits of non-Archimedean spaces of continuous functions. (Italian summary) **2002b:46118**
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— Metrizability of some analytic affine spaces. (English summary) **2002h:46125**
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Pérez-García, Cristina (*with* Schikhof, Wim H.) An approximation theorem for p-adic linear forms. (English summary) **2002c:46142**
— *see also* **De Grande-De Kimpe, N. et al., 2002b:46117**
Schikhof, Wim H. Banach spaces over nonarchimedean valued fields. (English summary) **2002k:46194**
— *see also* **De Grande-De Kimpe, N. et al., 2002b:46117** *and* **Pérez-García, Cristina, 2002c:46142**
Śliwa, Wiesław Every infinite-dimensional non-Archimedean Fréchet space has an orthogonal basic sequence. (English summary) **2002k:46195**
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Araujo, Jesús A new version of the nonarchimedean Banach-Stone theorem. **2002g:46090**
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Endo, Mikihiko Hartogs-Stawski's theorem for bounded analytic elements. **2002d:32037**
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Gilsdorf, Thomas E. *see* **Aguayo, José N., 2002f:46071**
Jang, Lee Chae (*with* Kim, Min-Soo; Son, Jin-Woo; Kim, Taekyun; Rim, Seog-Hoon) On p-adic bounded functions. II. (English summary) **2002i:11119**
Kąkol, Jerzy *see* **De Grande-De Kimpe, N. et al., 2002f:46007**
Katsaras, A. K. On p-adic locally convex spaces. **2002c:46004**
— (*with* Petalas, C. G.) Integral representations of continuous linear operators on p-adic function spaces. **2002e:47094**
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— Some properties of certain sequence spaces over non-Archimedean fields. (English summary) **2002e:46010**
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Pérez-García, Cristina *see* **De Grande-De Kimpe, N. et al., 2002f:46007**
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Schneider, Peter[1] (*with* Teitelbaum, J.) p-adic Fourier theory. (English summary) **2002j:11143**
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Verdoodt, Ann Umbral calculus in non-Archimedean analysis. (English summary) **2002h:05016**

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46S20 Nonstandard functional analysis [see also 03H05]

Falcón, Sergio (*with* Sadarangani, Kishin B.) A note on a theorem of Tacon. (English summary) **2002g:46136**
Gutman, A. E. (*with* Ryabko, D. B.) The nonstandard hull of a normed space in a Boolean-valued universe. (Russian. Russian summary) **2002h:46126**
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Hoskins, Roy Frank Nonstandard theories of generalised functions. (English summary) **2002f:46067**
Kusraev, A. G. ★ Булевозначный анализ инволютивных банаховых алгебр. (Russian. Russian summary) [Boolean-valued analysis of involutive Banach algebras] **2002a:46071**
— (*with* Kutateladze, S. S.) Nonstandard methods and Kantorovich spaces.
Kutateladze, S. S. *see* **Kusraev, A. G.**

46S30 Constructive functional analysis [see also 03F60]

Dediu, Luminiţa Simona Constructive notes on Minkowski functionals. (English summary) **2002h:46127**

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— *see also* **Dediu, Luminiţa Simona, 2002f:03119**
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Ishihara, Hajime (*with* Mines, Ray) Various continuity properties in constructive analysis. (English summary) (*see* **2002j:03005**)
Mines, Ray *see* **Ishihara, Hajime, (2002j:03005)**

46S40 Fuzzy functional analysis [see also 03E72]

Cokilavany, R. *see* **Meenakshi, A. R., 2002c:46143**
Das, N. R. (*with* Das, Pankaja) Duality in fuzzy vector valued sequence space. (English summary)
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Fang, Jin Xuan On the completion of fuzzy normed spaces. (English summary)
— *see also* **Yan, Cong-Hua, 2002j:46094** *and* **2002k:46197**
Flores-Franulič, A. *see* **Roman F., Heriberto, 2002j:46093**
Meenakshi, A. R. (*with* Cokilavany, R.) On fuzzy 2-normed linear spaces. (English summary) **2002c:46143**
Roman F., Heriberto (*with* Flores-Franulič, A.) A note on projection of fuzzy sets on hyperplanes. (English summary) **2002j:46093**
Xiao, Jian Zhong (*with* Zhu, Xing Hua) On linearly topological structure and property of fuzzy normed linear space. (English summary) **2002k:46196**
— Hahn-Banach theorem for fuzzy normed spaces. (Chinese. English and Chinese summaries) **2002m:46112**
Yan, Cong-Hua Inductive topologies of L-fuzzy topological vector spaces. (English and Chinese summaries) **2002i:46077**
— Projective limit of L-fuzzy locally convex topological vector spaces. (English summary) **2002a:46105**
— (*with* Fang, Jin Xuan) Generalization of Kolmogoroff's theorem to L-topological vector spaces. (English summary) **2002j:46094**
— (*with* Fang, Jin Xuan) On the categories of LFNS and QFTVS. (English summary) **2002k:46197**
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Fang, Jin Xuan (*with* Yan, Cong-Hua) Induced $I(L)$-fuzzy topological vector spaces. (English summary) **2002c:46008**
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46S50 Functional analysis in probabilistic metric linear spaces

Guo, Tie Xin Survey of recent developments of random metric theory and its applications in China. I. (English and Chinese summaries) **2002i:46078**
— Random metric theory and its applications. (Chinese. English and Chinese summaries) **2002a:46106**
Su, Yong Fu On definition of probabilistic inner product space. (English and Chinese summaries)
Xiao, Jian Zhong On linearly topological structure and orthogonality of Menger probabilistic inner product spaces. (English and Chinese summaries) **2002f:46152**
Zhang, Min Xian A finite-dimensional characterization of probabilistic normed spaces. (Chinese. English and Chinese summaries) **2002k:46198**

46S60 Functional analysis on superspaces (supermanifolds) or graded spaces [see also 58A50 and 58C50]

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46S99 None of the above, but in this section

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46Txx Nonlinear functional analysis [see also 47Hxx, 47Jxx, 58Cxx, 58Dxx]

46T05 Infinite-dimensional manifolds [see also 53Axx, 57N20, 58Bxx, 58Dxx]

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46T10 Manifolds of mappings

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46T12 Measure (Gaussian, cylindrical, etc.) and integrals (Feynman, path, Fresnel, etc.) on manifolds [see also 28Cxx, 46G12, 60–XX]

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46T20 Continuous and differentiable maps [see also 46G05]

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46T25 Holomorphic maps [see also 46G20]

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46T30 Distributions and generalized functions on nonlinear spaces [see also 46Fxx]

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47Axx General theory of linear operators

47A05 General (adjoints, conjugates, products, inverses, domains, ranges, etc.)

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47A75 Eigenvalue problems [see also 49R50]

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47A80 Tensor products of operators [see also 46M05]

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47Bxx Special classes of linear operators

47B06 Riesz operators; eigenvalue distributions; approximation numbers, s-numbers, Kolmogorov numbers, entropy numbers, etc. of operators

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47B15 Hermitian and normal operators (spectral measures, functional calculus, etc.)

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47B48 Operators on Banach algebras

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47Cxx Individual linear operators as elements of algebraic systems

47C05 Operators in algebras

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47C99 None of the above, but in this section

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47D03 Groups and semigroups of linear operators {For nonlinear operators, see 47H20; see also 20M20.}

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Skrypnik, Igor V. *see* **Kartsatos, Athanassios G., 2002j:47087**
Solonoukha, O. V. On some properties of generalized pseudomonotone operators. (English summary) **2002m:47067**
Takahashi, Wataru (*with* Toyoda, Masashi) Characterization of maximal monotone mappings through the continuity property. (Japanese) (*see* **2002c:90005**)
Théra, Michel *see* **Moudafi, Abdellatif, 2002f:47099** *and* **Revalski, Julian P., 2002k:47104**
Toyoda, Masashi *see* **Takahashi, Wataru, (2002c:90005)**
Verma, Ram U. A class of generalized partially relaxed monotone mappings. (English summary)
Voisei, Mircea Dan Extension theorems for k-monotone operators. (English summary) **2002e:47067**
Wei, Li (*with* Liu, Yuan-xing) Surjectivity for compact perturbations of maximal monotone operators. (Chinese. English and Chinese summaries) **2002d:47074**
— Perturbation theorems for the range of maximal monotone operators. (Chinese. English and Chinese summaries)

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Arason, Jón Kr. (*with* Magnus, Robert) A multiplicity theory for analytic functions that take values in a class of Banach algebras. (English summary) **2002f:47026**
Benoist, Joël (*with* Daniilidis, Aris) Dual characterizations of relative continuity of convex functions. (English summary) **2002c:46091**
— (*with* Daniilidis, Aris) Integration of Fenchel subdifferentials of epi-pointed functions. (English summary) **2002j:49023**
Bostan, Mihai Solutions périodiques des équations d'évolution. (English and French summaries) [Periodic solutions of evolution equations] **2002a:34094**
Chidume, C. E. Iterative methods for nonlinear Lipschitz pseudocontractive operators. **2002d:47075**
Chowdhury, Mohammad S. R. (*with* Tarafdar, Enayet) Existence theorems of generalized quasi- and bi-quasi-variational inequalities for quasi- and bi-quasi-monotone operators with applications in non-compact settings and minimization problems. (English summary) **2002f:47134**
Cuninghame-Green, R. A. (*with* Zimmermann, Karel) Equation with residuated functions. (English summary) **2002j:93058**
Daniilidis, Aris Subdifferentials of convex functions and sigma-cyclic monotonicity. (English summary) **2002d:49018**
— *see also* **Benoist, Joël, 2002c:46091** *and* **2002j:49023**
Dinca, George (*with* Jebelean, Petru) Some existence results for a class of nonlinear equations involving a duality mapping. **2002f:47124**
El Farouq, N. Pseudomonotone variational inequalities: convergence of proximal methods. (English summary) **2002b:49016**
Fontes, Magnus A monotone operator method for elliptic-parabolic equations. **2002c:35095**
Jebelean, Petru *see* **Dinca, George, 2002f:47124**
Karátson, János A concept of energy Banach space and its application to the gradient method. (English summary) **2002m:47081**
Kartsatos, Athanassios G. *see* **Zhou, Hai Yun, 2002d:47084**

Kovalenok, A. P. Rotation of pseudomonotone vector fields and the Dirichlet problem for elliptic equations. (Russian. English and Russian summaries)
Kravvaritis, Dimitrios (*with* Smyrlis, George) An existence theorem for quasilinear elliptic resonance equations. (English summary) **2002h:35068**
Magnus, Robert *see* **Arason, Jón Kr., 2002f:47026**
Martínez-Legaz, Juan Enrique (*with* Théra, Michel) A convex representation of maximal monotone operators. (English summary) **2002e:49035**
Noor, Muhammad Aslam Some predictor-corrector algorithms for multivalued variational inequalities. (English summary) **2002b:47133**
Pennanen, Teemu Dualization of generalized equations of maximal monotone type. (English summary) **2002e:90121**
Penot, Jean-Paul (*with* Ratsimahalo, Robert) On the Yosida approximation of operators. (English summary) **2002g:47137**
Przeworski, Mirosław (*with* Zagrodny, Dariusz) Maximal monotonicity, subdifferentials and generalizations. **2002h:49030**
Qiu, Qiusheng Some fixed point theorems of increasing operators and applications. (English summary) **2002j:47102**
Ratsimahalo, Robert *see* **Penot, Jean-Paul, 2002g:47137**
Simons, Stephen Five kinds of maximal monotonicity. (English summary) **2002h:49031**
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Sun, Jing Xian (*with* Xu, Xi An) Decreasing flow invariant sets and fixed points of quasimonotone increasing operators. (English summary) **2002b:47121**
Sun, Le-lin *see* **Xiao, Jin Sheng, 2002h:47115**
Tarafdar, Enayet *see* **Chowdhury, Mohammad S. R., 2002f:47134**
Théra, Michel *see* **Martínez-Legaz, Juan Enrique, 2002e:49035**
Vrabie, Ioan I. The behaviour at infinity of some nonlinear semigroups in Hilbert spaces. (English summary) **2002j:47106**
Xiao, Jin Sheng (*with* Sun, Le-lin) An iterative algorithm for maximal monotone multivalued operator equations. (English summary) **2002h:47115**
Xu, Xi An *see* **Sun, Jing Xian, 2002b:47121**
Zagrodny, Dariusz *see* **Przeworski, Mirosław, 2002h:49030**
Zhou, Hai Yun (*with* Kartsatos, Athanassios G.) Eigenvalues and ranges for perturbations of nonlinear accretive and monotone operators in Banach spaces. (English summary) **2002d:47084**
Zimmermann, Karel *see* **Cuninghame-Green, R. A., 2002j:93058**

47H06 Accretive operators, dissipative operators, etc.

Chełmiński, Krzysztof From the Minty-Browder method to the theory of viscosity solutions. (Polish) **2002g:47108**
Chidume, C. E. Iterative methods for nonlinear Lipschitz pseudocontractive operators. **2002d:47075**
— (*with* Osilike, M. O.) Equilibrium points for a system involving m-accretive operators. (English summary) **2002i:47067**
Fan, Rui-qin Some mapping theorems of m-accretive odd operators in Banach spaces. (English and Chinese summaries) **2002h:47077**
He, Zhen[1] *see* **Yan, Min et al., 2002h:47078**
Hui, Shu-rong *see* **Zhang, Guo Wei[1], 2002h:47079**
Kartsatos, Athanassios G. *see* **Zhou, Hai Yun, 2002j:47088**
Li, Su Mei *see* **Yan, Min et al., 2002h:47078**
Mustafa, Octavian G. A remark about the density of the domain of m-accretive operators. (English summary) **2002c:47118**
Osilike, M. O. *see* **Chidume, C. E., 2002i:47067**
Udomene, A. Construction of zeros of accretive mappings. (English summary) **2002g:47109**
Yan, Min (*with* Li, Su Mei; He, Zhen[1]) Convergence of Ishikawa iterative sequences with errors for M-accretive operators and φ-pseudo-contractive mappings. (Chinese. English and Chinese summaries) **2002h:47078**
Yan, Wen Yong The range of the sum of two accretive operators. (Chinese. English and Chinese summaries) **2002d:47076**
Zhang, Guo Wei[1] (*with* Hui, Shu-rong) Zeros of perturbed m-accretive operators. (English and Chinese summaries) **2002h:47079**
Zhou, Hai Yun (*with* Kartsatos, Athanassios G.) Zeros and mapping theorems for perturbations of m-accretive operators in Banach spaces. (Chinese. English and Chinese summaries) **2002j:47088**

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Agarwal, Ravi P. (*with* Huang, Nan Jing; Cho, Yeol Je) Stability of iterative processes with errors for nonlinear equations of φ-strongly accretive type operators. (English summary) **2002f:47138**
Benilan, Philippe Quelques remarques sur la convergence singulière des semi-groupes linéaires. [Some remarks on the singular convergence of linear semigroups] **2002b:47084**
Chen, Dong Qing[1] *see* **Gao, Gai Liang et al.**
Chidume, C. E. (*with* Zegeye, H.) Global iterative schemes for accretive operators. (English summary) **2002e:47084**
Cho, Yeol Je *see* **Agarwal, Ravi P. et al., 2002f:47138**;**Zhou, Hai Yun et al., 2002i:47086**;**2002i:47090** *and* **Jung, Jong Soo et al., 2002j:47113**
Favini, Angelo (*with* Goldstein, Gisèle Ruiz; Goldstein, Jerome A.; Romanelli, Silvia) Nonlinear boundary conditions for nonlinear second order differential operators on $C[0, 1]$. (English summary) **2002d:35116**
Gao, Cheng-Jia *see* **Huang, Xiao-ping et al., 2002h:47110**
Gao, Gai Liang (*with* Zhou, Hai Yun; Chen, Dong Qing[1]; Zhao, Sheng Fu) Iterative approximation of solutions to a class of accretive operator equations with mixed errors. (Chinese. English and Chinese summaries)
Goldstein, Gisèle Ruiz *see* **Favini, Angelo et al., 2002d:35116**
Goldstein, Jerome A. *see* **Favini, Angelo et al., 2002d:35116**
Grimmer, Ronald (*with* Su, Meng) A nonlinear parameter dependent boundary value problem in one space dimension. **2002e:35114**
Gu, Feng[1] (*with* Han, Yang[2]; Liu, Cai Ping) Iterative approximation of fixed points for multi-valued Φ-pseudo contractive type mappings in uniformly smooth Banach spaces. (Chinese. English and Chinese summaries) **2002i:47071c**
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He, Zhen[1] *see* **Wei, Li, 2002g:35086**
Huang, Nan Jing *see* **Agarwal, Ravi P. et al., 2002f:47138** *and* **Huang, Xiao-ping et al., 2002h:47110**
Huang, Xiao-ping (*with* Kim, Jong Kyu; Gao, Cheng-Jia; Huang, Nan Jing) Ishikawa iterative procedures with errors for multi-valued mappings in Banach spaces. (English summary) **2002h:47110**
Huang, Zhen Yu Iterative approximations of φ-hemicontractive mappings without Lipschitz assumption. (English summary) **2002k:47137**
Jin, Mao Ming Ishikawa iterative approximation with errors for solutions of accretive operator equations. (Chinese. English and Chinese summaries)
Jung, Jong Soo Iterative approximation for perturbed m-accretive operator equations in arbitrary Banach spaces. (English summary) **2002a:47102**
— Asymptotic behavior of solutions of nonlinear Volterra equations and mean points. (English summary) **2002e:45004**
— (*with* Morales, Claudio H.) The Mann process for perturbed m-accretive operators in Banach spaces. **2002g:47120**
— (*with* Cho, Yeol Je; Zhou, Hai Yun) Iterative methods with mixed errors for perturbed m-accretive operator equations in arbitrary Banach spaces. (English summary) **2002j:47113**
Kamimura, Shoji (*with* Khan, Safeer Hussain; Takahashi, Wataru) Iterative schemes for approximating solutions of relations involving accretive operators in Banach spaces. (English summary) (*see* **2002a:00019**)
Kang, Shin Min *see* **Zhou, Hai Yun et al., 2002i:47086**
Kartsatos, Athanassios G. *see* **Zhou, Hai Yun, 2002d:47084**
Khan, Safeer Hussain *see* **Kamimura, Shoji et al., (2002a:00019)**
Kim, Jong Kyu *see* **Huang, Xiao-ping et al., 2002h:47110**
Lan, K. Q. (*with* Webb, J. R. L.) A-properness and fixed point theorems for dissipative type maps. (English summary) **2002b:47116**
Liu, Cai Ping *see* **Gu, Feng[1] et al., 2002i:47071c**
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Moore, Chika (*with* Nnoli, B. V. C.) Iterative solution of nonlinear equations involving set-valued uniformly accretive operators. (English summary) **2002f:47145**
Morales, Claudio H. *see* **Jung, Jong Soo, 2002g:47120**
Nan, Shu-qin *see* **Wei, Li et al., 2002e:35102**
Nnoli, B. V. C. *see* **Moore, Chika, 2002f:47145**
O'Dowd, G. Weak stabilization for an evolution equation with nonlinear nonmonotone damping: the artificial problem method. **2002a:34091**
Okazawa, Noboru (*with* Yokota, Tomomi) Perturbation theory for m-accretive operators and generalized complex Ginzburg-Landau equations. (English summary) **2002h:35295**
Rhoades, B. E. (*with* Saliga, L.) Some fixed point iteration procedures. II. (English summary) **2002f:47115**
Romanelli, Silvia *see* **Favini, Angelo et al., 2002d:35116**
Saliga, L. *see* **Rhoades, B. E., 2002f:47115**
Su, Meng *see* **Grimmer, Ronald, 2002e:35114**
Takahashi, Wataru ★ Nonlinear functional analysis. **2002k:47001**
— *see also* **Kamimura, Shoji et al., (2002a:00019)**
Tian, You Xian A stability problem of an iterative process for accretive and pseudo-contractive mappings. (Chinese. English and Chinese summaries) **2002h:47113**
Turinici, Mihai Differential equations on closed sets under generalized dissipativity conditions. (English summary) **2002a:34093**
Webb, J. R. L. *see* **Lan, K. Q., 2002b:47116**
Wei, Li (*with* Nan, Shu-qin; Liu, Yuan-xing) Research on a solution of elliptic boundary value problems by using theories of accretive operators. (English and Chinese summaries) **2002e:35102**
— (*with* He, Zhen[1]) The applications of theories of accretive operators to nonlinear elliptic boundary value problems in L^p-spaces. **2002g:35086**
Xie, Fang The approximative solution of nonlinear equation with φ-accretive operators by Ishikawa iterative processes with errors. (English and Chinese summaries)
Yang, Li[1] On perturbations of accretive operators in Banach spaces. (English summary) **2002c:47132**
Yokota, Tomomi *see* **Okazawa, Noboru, 2002h:35295**
Zegeye, H. *see* **Chidume, C. E., 2002e:47084**
Zhang, Shi Sheng Existence and approximation of solutions to variational inclusions with accretive mappings in Banach spaces. (Chinese. English and Chinese summaries) **2002k:47136**
— *see also* **Zhou, Hai Yun et al., 2002i:47090**
Zhao, Sheng Fu *see* **Gao, Gai Liang et al.**
Zhao, Ya Li A three-step iterative method with errors for constructing solutions for m-accretive operator equations in Banach spaces. (Chinese. English and Chinese summaries)
Zhou, Hai Yun (*with* Kartsatos, Athanassios G.) Eigenvalues and ranges for perturbations of nonlinear accretive and monotone operators in Banach spaces. (English summary) **2002d:47084**
— (*with* Zhang, Shi Sheng; Cho, Yeol Je) Weak stability of the Ishikawa iteration procedures for φ-hemicontractions and accretive operators. (English summary) **2002i:47090**
— (*with* Cho, Yeol Je; Kang, Shin Min) Approximating the zeros of accretive operators by the Ishikawa iterative scheme with mixed errors. (English summary) **2002i:47086**
— *see also* **Jung, Jong Soo et al., 2002j:47113** *and* **Gao, Gai Liang et al.**

47H07 Monotone and positive operators on ordered Banach spaces or other ordered topological vector spaces

Chen, Yong-Zhuo The omega limit sets of ray-contractive operators. (English summary) **2002g:47110**
— Stability of positive fixed points of nonlinear operators. (English summary) **2002k:47105**
Diamond, Phil (*with* Opoĭtsev, V. I.) Stability of nonlinear difference inclusions. (English summary) **2002h:47080**

Liu, San Yang *see* **Sheng, Bao Huai et al., 2002m:47068**
Lungu, Nicolae On some generalized Wendorff-type inequalities. (Romanian summary)
Mao, Hua *see* **Sheng, Bao Huai et al., 2002m:47068**
Opoitsev, V. I. *see* **Diamond, Phil, 2002h:47080**
Sheng, Bao Huai (*with* Liu, San Yang; Mao, Hua) The extension theorems of cone linear operators. (Chinese. English and Chinese summaries) **2002m:47068**

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Agarwal, Ravi P. (*with* O'Regan, Donal) Existence of three solutions to integral and discrete equations via the Leggett Williams fixed point theorem. (English summary) **2002k:47129**
Chen, Ji Qian (*with* Chen, Ning[1]) Some fixed point theorems for mixed monotone operators and positive fixed points on cones. (Chinese. English and Chinese summaries) **2002j:47092**
Chen, Ning[1] *see* **Chen, Ji Qian, 2002j:47092**
Chidume, C. E. Iterative methods for nonlinear Lipschitz pseudocontractive operators. **2002d:47075**
Ge, Wei Gao *see* **Sun, Wei Ping, 2002f:34050**
Konnov, Igor V. On vector equilibrium and vector variational inequality problems. (English summary) **2002b:90068**
Mydlarczyk, W. A nonlinear Abel equation on the whole line. **2002g:45007**
O'Regan, Donal *see* **Agarwal, Ravi P., 2002k:47129**
Precup, Radu On the reverse of the Krasnoselskii-Browder boundary inequality. (English and Romanian summaries)
Schrader, Robert Perron-Frobenius theory for positive maps on trace ideals. (English summary) **2002k:47049**
Smith, Hal L. (*with* Thieme, Horst R.) Stable coexistence and bi-stability for competitive systems on ordered Banach spaces. (English summary) **2002i:47084**
Sun, Wei Ping (*with* Ge, Wei Gao) The existence of positive solutions for a class of nonlinear boundary value problems. (Chinese. English and Chinese summaries) **2002f:34050**
Thieme, Horst R. *see* **Smith, Hal L., 2002i:47084**
Zhang, Fei Ran The existence and uniqueness of the solutions of non-monotone operator equations in Banach spaces. (Chinese. English and Chinese summaries) **2002b:47128**

47H09 Nonexpansive mappings, and their generalizations (ultimately compact mappings, measures of noncompactness and condensing mappings, A-proper mappings, K-set contractions, etc.)

Agarwal, Ravi P. (*with* O'Regan, Donal) A generalization of the Krasnoselskii-Petryshyn compression and expansion theorem: an essential map approach. (English summary) **2002c:47119**
Appell, J. (*with* Väth, Martin) Measures on noncompactness of sets and integral operators in spaces of measurable functions. (Italian. English and Italian summaries) **2002k:47106**
Atsushiba, Sachiko (*with* Lau, Anthony To-Ming; Takahashi, Wataru) Nonlinear strong ergodic theorems for commutative nonexpansive semigroups on strictly convex Banach spaces. (English summary) **2002d:47077**
— Nonlinear strong ergodic theorems with compact domains. (*see* **2002a:00019**)
— On the convergence to the common fixed points of finite many quasi-nonexpansive mappings. (Japanese)
Banaś, Józef (*with* Olszowy, Leszek) Measures of noncompactness related to monotonicity. (English summary) **2002k:47107**
Berinde, Vasile ★ Contracţii generalizate şi aplicaţii. (Romanian. Romanian summary) [Generalized contractions and applications] **2002g:47111**
Butnariu, Dan (*with* Reich, Simeon; Zaslavski, Alexander J.) Asymptotic behavior of quasi-nonexpansive mappings. (English summary) **2002f:47101**
— (*with* Reich, Simeon; Zaslavski, Alexander J.) Asymptotic behavior of relatively nonexpansive operators in Banach spaces. (English summary) **2002k:47108**
Chidume, C. E. Convergence theorems for asymptotically pseudocontractive mappings. **2002k:47109**
Chistyakov, Vyacheslav V. Generalized variation of mappings with applications to composition operators and multifunctions. (English summary) **2002k:47110**
Cho, Yeol Je *see* **Zhang, Shi Sheng et al., 2002h:47081**
Djafari Rouhani, Behzad Ergodic theorems for nonexpansive curves defined on general semigroups in a Hilbert space. **2002g:47112**
Erzakova, N. A. On measures of noncompactness. (Russian. English and Russian summaries) **2002g:47113**
Huang, Jui-Chi Convergence theorems of the sequence of iterates for a finite family asymptotically nonexpansive mappings. (English summary) **2002k:47111**
Kaczor, Wiesława Some remarks about uniformly Lipschitzian mappings and Lipschitzian retractions. (English summary) **2002d:47078**
Kikkawa, Misako (*with* Takahashi, Wataru) A strong convergence theorem for a countable family of nonexpansive mappings by using a hybrid method and its applications. (Japanese)
Kim, Jong Kyu *see* **Li, Gang[1], 2002a:47088** *and* **2002m:47069**
Lau, Anthony To-Ming *see* **Atsushiba, Sachiko et al., 2002d:47077**
Lemmens, Bas Integral rigid sets and periods of nonexpansive maps. (English summary) **2002c:47120**
Li, Gang[1] (*with* Kim, Jong Kyu) Nonlinear ergodic theorems for a semitopological semigroup of non-Lipschitzian mappings without convexity. (English summary) **2002a:47088**
— (*with* Kim, Jong Kyu) Nonlinear ergodic theorems for asymptotically almost nonexpansive curves in a Hilbert space. (English summary) **2002m:47069**
Ling, Joseph M. Fixed points of nonexpansive maps on locally convex spaces. (English summary) **2002a:47089**
Llorens-Fuster, Enrique Semigroups of mappings with rigid Lipschitz constant. (English summary) **2002k:47112**
Nakajo, Kazuhide (*with* Takahashi, Wataru) A nonlinear strong ergodic theorem for families of asymptotically nonexpansive mappings with compact domains. (English summary) **2002g:47114**
Olszowy, Leszek *see* **Banaś, Józef, 2002k:47107**
O'Regan, Donal *see* **Agarwal, Ravi P., 2002c:47119**
Pastor, Daniel A remark on generalised compact maps. (English summary) **2002j:47089**
Reich, Simeon (*with* Zaslavski, Alexander J.) Generic convergence of infinite products of nonexpansive mappings in Banach and hyperbolic spaces. (English summary) **2002m:47070**
— (*with* Zaslavski, Alexander J.) The set of noncontractive mappings is σ-porous in the space of all nonexpansive mappings. (English and French summaries) **2002i:47068**
— (*with* Zaslavski, Alexander J.) Generic convergence of infinite products. (English summary) **2002b:47106**
— *see also* **Butnariu, Dan et al., 2002f:47101** *and* **2002k:47108**
Shahzad, Naseer Invariant approximations and R-subweakly commuting maps. (English summary) **2002b:47107**
Su, Yong Fu Convergence theorems for asymptotically non-expansive mappings in a uniformly convex Banach space. (Chinese. English and Chinese summaries) **2002f:47102**
Suzuki, Tomonari (*with* Takahashi, Wataru) Relationship between the strict convexity and the convergence theorem connected with nonexpansive mappings in Banach spaces. (Japanese) (*see* **2002a:00019**)
Takahashi, Wataru *see* **Atsushiba, Sachiko et al., 2002d:47077**;**Nakajo, Kazuhide, 2002g:47114**;**Suzuki, Tomonari, (2002a:00019)** *and* **Kikkawa, Misako**
Väth, Martin *see* **Appell, J., 2002k:47106**
Yoshimoto, Takeshi A nonlinear Abelian ergodic theorem for asymptotically nonexpansive mappings in a Hilbert space. (English summary) **2002i:47069**
— Nonlinear ergodic theorems of Dirichlet's type in Hilbert spaces. (English summary) **2002m:47071**
Zaslavski, Alexander J. *see* **Reich, Simeon, 2002b:47106**;**2002i:47068**;**2002m:47070**;**Butnariu, Dan et al., 2002f:47101** *and* **2002k:47108**
Zhang, Shi Sheng (*with* Cho, Yeol Je; Zhou, Hai Yun) Demi-closed principle and weak convergence problems for asymptotically nonexpansive mappings. (English summary) **2002h:47081**
Zhou, Hai Yun *see* **Zhang, Shi Sheng et al., 2002h:47081**

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Agarwal, Ravi P. (*with* Meehan, Maria; O'Regan, Donal) ★ Fixed point theory and applications. (English summary) **2002c:47122**
— (*with* O'Regan, Donal) Fixed-point theorems for countably condensing maps on Fréchet spaces. (English summary) **2002f:47121**
— (*with* O'Regan, Donal) Nonlinear essential maps of Mönch, 1-set contractive demicompact and monotone $(S)_+$ type. (English summary) **2002g:47115**
— (*with* O'Regan, Donal) Homotopy and existence of solutions for the nonlinear equation $Lx \in Nx$. **2002b:47105**
— (*with* O'Regan, Donal) Continuation theorems for countably condensing maps. (English summary) **2002c:47124**
— (*with* Huang, Nan Jing; Cho, Yeol Je) Stability of iterative processes with errors for nonlinear equations of φ-strongly accretive type operators. (English summary) **2002f:47138**
— (*with* O'Regan, Donal) Countably collectively condensing operator approximation theory. (English summary) **2002h:47073**
Alber, Ya. I. (*with* Guerre-Delabriere, Sylvie) On the projection methods for fixed point problems. (English summary) **2002c:47125**
Al-Nayef, Anwar A. On the spectrum of Ψ-contracting operators. (English summary) **2002e:47004**
Aniagbosor, S. C. *see* **Osilike, M. O., 2002i:47079**
Anichini, Giuseppe (*with* Conti, Giuseppe) Boundary value problems for implicit ODE's in a singular case. (English summary) **2002i:34014**
Banaś, Józef (*with* Lecko, Millenia) Solvability of infinite systems of differential equations in Banach sequence spaces. (English summary) **2002i:34105**
Benchohra, Mouffak (*with* Ntouyas, Sotiris K.) Existence of mild solutions of second order initial value problems for differential inclusions with nonlocal conditions. (English summary) **2002j:34098**
Bugajewski, Dariusz On the Volterra integral equation and axiomatic measures of weak noncompactness. (English summary) **2002f:45003**
Chen, Yong-Zhuo The omega limit sets of ray-contractive operators. (English summary) **2002g:47110**
Cho, Yeol Je *see* **Agarwal, Ravi P. et al., 2002f:47138**;**Zhang, Shi Sheng et al., 2002g:47132** *and* **2002h:47091**
Conti, Giuseppe *see* **Anichini, Giuseppe, 2002i:34014**
Delbosco, Domenico Fixed points of mappings defined on a ball of a reflexive Banach space. (English summary) **2002e:47072**
Do Hong Tan (*with* Ha Duc Vuong) Some remarks on fixed points. (English summary) **2002g:47117**
Domínguez Benavides, Tomás (*with* Japón Pineda, María A.) Opial modulus, moduli of noncompact convexity and fixed points for asymptotically regular mappings. **2002h:47084**
— (*with* Khamsi, Mohamed A.; Samadi, Sedki) Uniformly Lipschitzian mappings in modular function spaces. **2002g:46069**
Dowling, Patrick N. (*with* Lennard, C. J.; Turett, B.) The fixed point property for subsets of some classical Banach spaces. **2002k:47115**
Duru, Hülya On the fixed points of affine nonexpansive mappings. (English summary) **2002m:54046**
Espínola, R. (*with* Kim, Eun Suk; Kirk, William A.) Fixed point properties of mappings satisfying local contractive conditions. (English summary) **2002g:47118**
Ewert, Janina The measure of nonconvexity in Fréchet spaces and a fixed point theorem for multivalued maps. (English summary) **2002k:47116**
Fan, Rui-qin Some mapping theorems of m-accretive odd operators in Banach spaces. (English and Chinese summaries) **2002h:47077**

Gabor, Dorota The generalized coincidence index—application to a boundary value problem. (English summary) **2002c:34097**
Gao, Ji Normal hexagon and more general Banach spaces with uniform normal structure. (English and Chinese summaries) **2002c:46024**
Giorgieri, Elena (*with* Väth, Martin) A characterization of 0-epi maps with a degree. (English summary) **2002h:47093**
Goebel, Kazimierz On minimal displacement problem and retractions of balls onto spheres. (English summary) **2002k:47117**
Górnicki, Jarosław Foundations of nonlinear ergodic theory. (Polish) **2002m:37004**
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47H14 Perturbations of nonlinear operators

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47H30 Particular nonlinear operators (superposition, Hammerstein, Nemytskiĭ, Uryson, etc.) [see also 45Gxx, 45P05]

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47H40 Random operators [see also 60H25]

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47H50 Potential operators

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47Jxx Equations and inequalities involving nonlinear operators {For global and geometric aspects, see 58–XX.}

47J05 Equations involving nonlinear operators (general)

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47L07 Convex sets and cones of operators [see also 46A55]

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47L15 Operator algebras with symbol structure

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47L20 Operator ideals

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47L25 Operator spaces (= matricially normed spaces) [see also 46L07]

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Conference:
Mathematical Theory of Networks and Systems ★ Infinite-dimensional systems theory and operator theory.
Infinite-dimensional systems theory and operator theory ★ Infinite-dimensional systems theory and operator theory.
Perpignan ★ Infinite-dimensional systems theory and operator theory.

47N99 None of the above, but in this section

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Rugh, Hans Henrik *see* **Baladi, Viviane, 2002f:37045**
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47Sxx Other (nonclassical) types of operator theory [see also 46Sxx]

47S10 Operator theory over fields other than R, C or the quaternions; non-Archimedean operator theory

Katsaras, A. K. (*with* Petalas, C. G.) Integral representations of continuous linear operators on p-adic function spaces. **2002e:47094**
Natarajan, P. N. Matrix transformations between certain sequence spaces over valued fields. II. (English summary) **2002m:47087**
Petalas, C. G. *see* **Katsaras, A. K., 2002e:47094**
Vega, S. On p-adic Fredholm operators with null index. (English summary) **2002i:47094**
— Compact perturbations of p-adic operators with finite codimensional range. **2002d:47102**

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Aguayo, José N. (*with* Gilsdorf, Thomas E.) Non-Archimedean vector measures and integral operators. (English summary) **2002f:46071**
Gajić, Ljiljana On ultrametric space. (English summary) **2002m:54047**
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Keller, Hans Arwed (*with* Ochsenius A., Herminia; Schikhof, Wim H.) On the commutation relation $AB - BA = I$ for operators on non-classical Hilbert spaces. (English summary) **2002d:47053**
Livshits, Leo (*with* MacDonald, Gordon Wilson) n-transitivity and the complementation property. (English summary) **2002d:20102**
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Schikhof, Wim H. Banach spaces over nonarchimedean valued fields. (English summary) **2002k:46194**
— *see also* **Keller, Hans Arwed et al., 2002d:47053**

47S20 Nonstandard operator theory [see also 03H05]

Ozawa, Masanao *see* **Yamashita, Hideyasu, 2002f:47150**
Yamashita, Hideyasu (*with* Ozawa, Masanao) Nonstandard representations of unbounded self-adjoint operators. **2002f:47150**

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Al'beverio, S. (*with* Gordon, E. I.; Khrennikov, A. Yu.) Finite-dimensional approximations of operators in the Hilbert spaces of functions on locally compact abelian groups. (English summary) **2002f:47030**
Falcón, Sergio (*with* Sadarangani, Kishin B.) A note on a theorem of Tacon. (English summary) **2002g:46136**
Gordon, E. I. *see* **Al'beverio, S. et al., 2002f:47030**
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Ozawa, Masanao *see* **Yamashita, Hideyasu, 2002d:81105**
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Wiśnicki, Andrzej Neocompact sets and the fixed point property. (English summary) **2002k:47126**
Yamashita, Hideyasu (*with* Ozawa, Masanao) Nonstandard representations of the canonical commutation relations. (English summary) **2002d:81105**

47S30 Constructive operator theory [see also 03F60]

Items with secondary classifications in 47S30

Bridges, Douglas S. (*with* Havea, Robin) A constructive version of the spectral mapping theorem. (English summary) **2002f:03118**
Havea, Robin *see* **Bridges, Douglas S., 2002f:03118**

47S40 Fuzzy operator theory [see also 03E72]

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Ahmad, Rais (*with* Salahuddin; Hussain, Shamshad) Generalized nonlinear variational inclusions for fuzzy mappings. (English summary) **2002f:47132**
Bounias, M. *see* **Sharma, Birendra Kumar et al.**
Burillo López, Pedro J. (*with* Frago, N.; Fuentes González, Ramón) Generation of fuzzy mathematical morphologies. (English summary) **2002j:68099**
Ding, Xie Ping (*with* Park, Jong Yeoul) A new class of generalized nonlinear implicit quasivariational inclusions with fuzzy mappings. (English summary) **2002i:90132**
Fang, Jin Xuan (*with* Song, Gui-An) Φ-contractor and the solutions for nonlinear operator equations in fuzzy normed spaces. (English summary) **2002e:47137**
Frago, N. *see* **Burillo López, Pedro J. et al., 2002j:68099**
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Li, Yao Tang (*with* Wu, Cong Xin) Completely generalized mixed strongly variational inequalities for fuzzy mapping. (English and Chinese summaries) **2002i:47087**
Park, Jong Yeoul *see* **Ding, Xie Ping, 2002i:90132**
Sahu, Daya Ram *see* **Sharma, Birendra Kumar et al.**
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Song, Gui-An *see* **Fang, Jin Xuan, 2002e:47137**
Wu, Cong Xin *see* **Li, Yao Tang, 2002i:47087**

47S50 Operator theory in probabilistic metric linear spaces

Items with secondary classifications in 47S50

Ali, Rashid *see* **Beg, Ismat et al., 2002b:47109**
Azam, Akbar *see* **Beg, Ismat et al., 2002b:47109**
Beg, Ismat (*with* Latif, Abdul; Ali, Rashid; Azam, Akbar) Coupled fixed points of mixed monotone operators on probabilistic Banach spaces. (English summary) **2002b:47109**
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El Amrani, M. (*with* Mbarki, A. B.; Mehdaoui, B.) Nonlinear contractions and semigroups in general complete probabilistic metric spaces. (English summary) **2002i:54022**
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Mbarki, A. B. *see* **El Amrani, M. et al., 2002i:54022**
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Mihet, Dorel A class of Sehgal's contractions in probabilistic metric spaces. (English summary)
Radu, Viorel A fixed point principle in probabilistic metric spaces under Archimedean triangular norms. (English summary) **2002j:54034**

49–XX Calculus of variations and optimal control; optimization [see also 34H05, 34K35, 65Kxx, 90Cxx, 93–XX]

49–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Items with secondary classifications in 49–00

(Floudas, Christodoulos A.) *see* **Encyclopedia: Optimization, 2002h:00006**
(Pardalos, Panos M.) *see* **Encyclopedia: Optimization, 2002h:00006**

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Encyclopedia:
Optimization ★ Encyclopedia of optimization. Vol. I–VI. **2002h:00006**

49–01 Instructional exposition (textbooks, tutorial papers, etc.)

Almgren, Frederick J., Jr. ★ Plateau's problem. (English summary) **2002i:49001**
(Gunning, Robert) *see* **Almgren, Frederick J., Jr., 2002i:49001**
Leitão, Antonio ★ Cálculo variacional e controle ótimo. (Portuguese) [Calculus of variations and optimal control]
Locatelli, Arturo ★ Optimal control. (English summary) **2002j:49001**
(Rossi, Hugo) *see* **Almgren, Frederick J., Jr., 2002i:49001**
Sethi, Suresh P. (*with* Thompson, Gerald L.) ★ Optimal control theory. **2002k:49001**
(Taylor, Jean E.) *see* **Almgren, Frederick J., Jr., 2002i:49001**
Thompson, Gerald L. *see* **Sethi, Suresh P., 2002k:49001**

Items with secondary classifications in 49–01

Hiriart-Urruty, Jean-Baptiste (*with* Lemaréchal, Claude) ★ Fundamentals of convex analysis. (English summary) **2002i:90002**
Kinderlehrer, David (*with* Stampacchia, Guido) ★ An introduction to variational inequalities and their applications. (English summary) **2002d:49001**
Lasdon, Leon S. ★ Optimization theory for large systems. (English summary) **2002m:90002**
Lemaréchal, Claude *see* **Hiriart-Urruty, Jean-Baptiste, 2002i:90002**
Stampacchia, Guido *see* **Kinderlehrer, David, 2002d:49001**

49–02 Research exposition (monographs, survey articles)

Alsagaliev, S. A. ★ Краевые задачи оптимального управления. (Russian. Russian summary) [Boundary value problems for optimal control] **2002c:49001**
Allaire, Grégoire ★ Shape optimization by the homogenization method. (English summary) **2002h:49001**
Arutyunov, Aram V. ★ Optimality conditions. (English summary) **2002h:49002**
Aubert, Gilles (*with* Kornprobst, Pierre) ★ Mathematical problems in image processing. (English summary) **2002m:49001**
Betts, John T. ★ Practical methods for optimal control using nonlinear programming. (English summary) **2002e:49001**
Delfour, Michel C. (*with* Zolésio, Jean-Paul) ★ Shapes and geometries. (English summary) **2002i:49002**
Dykhta, V. A. (*with* Samsonyuk, O. N.) ★ Оптимальное импульсное управление с приложениями. (Russian. Russian summary) [Optimal impulse control with applications] **2002f:49001**
(Faugeras, Olivier) *see* **Aubert, Gilles, 2002m:49001**
He, Tian-Xiao ★ Dimensionality reducing expansion of multivariate integration. (English summary) **2002c:49002**
Kinderlehrer, David (*with* Stampacchia, Guido) ★ An introduction to variational inequalities and their applications. (English summary) **2002d:49001**
Kornprobst, Pierre *see* **Aubert, Gilles, 2002m:49001**
Sadovskiĭ, V. M. ★ Методы решения вариационных задач механики. (Russian. English and Russian summaries) [Methods for solving variational problems in mechanics] **2002b:49001**
Samsonyuk, O. N. *see* **Dykhta, V. A., 2002f:49001**
Stampacchia, Guido *see* **Kinderlehrer, David, 2002d:49001**
(Vakhrameev, S. A.) *see* **Arutyunov, Aram V., 2002h:49002**
Zolésio, Jean-Paul *see* **Delfour, Michel C., 2002i:49002**

Items with secondary classifications in 49–02

Ball, J. M. Singularities and computation of minimizers for variational problems. (English summary) **2002f:49017**
Benyah, Francis (*with* Jennings, Leslie S.) A review of ill-conditioning and regularization in optimal control computation. (English summary) **2002a:49039**
Borwein, Jonathan Michael (*with* Zhu, Qiji J.) Addendum: "A survey of subdifferential calculus with applications" [Nonlinear Anal. **38** (1999), no. 6, Ser. A: Theory Methods, 687–773; MR 2000j:49024]. **2002k:49032**
Carl, Siegfried A survey of recent results on the enclosure and extremality of solutions for quasilinear hemivariational inequalities. **2002i:35113**
Chrastina, Jan Examples from the calculus of variations. IV. Concluding review. (English summary) **2002i:49033**
Colding, Tobias H. (*with* Minicozzi, William P., II) ★ Minimal surfaces. **2002b:49072**
Ishmukhametov, A. Z. ★ Вопросы устойчивости и аппроксимации задач оптимального управления системами с распределительными параметрами. (Russian. Russian summary) [Questions of the stability and approximation of problems of the optimal control of systems with distributed parameters] **2002k:49057**
Ivanov, Viktor Vladimirovich[1] ★ Model development and optimization. (English summary) **2002a:93002**
Jennings, Leslie S. *see* **Benyah, Francis, 2002a:49039**
Mäkelä, Marko M. Survey of the methods for nonsmooth optimization. (*see* **2002e:00018**)
Minicozzi, William P., II *see* **Colding, Tobias H., 2002b:49072**
Rockafellar, R. Tyrrell Convex analysis in the calculus of variations. (English summary) **2002f:49039**
Schmitt, Klaus Variational inequalities, bifurcation and applications. **2002e:49016**
Smirnov, G. V. ★ Introduction to the theory of differential inclusions. (English summary) **2002h:34016**
Zhu, Qiji J. *see* **Borwein, Jonathan Michael, 2002k:49032**

49–03 Historical (must also be assigned at least one classification number from Section 01)

Si Si A brief history of variational calculus in the first half of twentieth century. (*see* **2002b:01003**)

Items with secondary classifications in 49–03

Giaquinta, Mariano Hilbert and the calculus of variations. (Italian) **2002g:01011**

49–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 49–04

Craven, B. D. (*with* Islam, S. M. N.) Computing optimal control on MATLAB—the SCOM package and economic growth models. (English summary) (*see* **2002k:00028**)
Islam, S. M. N. *see* **Craven, B. D., (2002k:00028)**

49–06 Proceedings, conferences, collections, etc.

Ambrosio, Luigi (*with* Dancer, Edward Norman) ★ Calculus of variations and partial differential equations. **2002d:49002**
(Azé, D.) *see* **Wellposedness in optimization and related topics**
(Buttazzo, Giuseppe) *see* **Ambrosio, Luigi, 2002d:49002**
Dancer, Edward Norman *see* **Ambrosio, Luigi, 2002d:49002**
(Dem'yanov, V. F.) *see* **Mathematical questions in the analysis of nonsmooth models, 2002m:49002**
(Hoffmann, Karl-Heinz[1]) *see* **Optimal control of complex structures, 2002m:49003**
(Lasiecka, Irena) *see* **Optimal control of complex structures, 2002m:49003**
(Leugering, Günter) *see* **Optimal control of complex structures, 2002m:49003**
(Lucchetti, R. E.) *see* **Wellposedness in optimization and related topics**
(Marino, Antonio) *see* **Ambrosio, Luigi, 2002d:49002**
(Murthy, M. K. V.) *see* **Ambrosio, Luigi, 2002d:49002**
(Revalski, Julian P.) *see* **Wellposedness in optimization and related topics**
(Sprekels, Jürgen) *see* **Optimal control of complex structures, 2002m:49003**
(Tröltzsch, Fredi) *see* **Optimal control of complex structures, 2002m:49003**

Items listed otherwise than by author

Calculus of variations and partial differential equations *see* **Ambrosio, Luigi, 2002d:49002**
Control theory and its applications ★ Control theory and its applications.
Gargnano ★ Wellposedness in optimization and related topics.
Grado ★ Control theory and its applications.
Mathematical questions in the analysis of nonsmooth models ★ Математические вопросы анализа негладких моделей. (Russian) [Mathematical questions in the analysis of nonsmooth models] **2002m:49002**
Oberwolfach ★ Optimal control of complex structures. **2002m:49003**
Optimal control of complex structures ★ Optimal control of complex structures. **2002m:49003**
Pisa *see* **Ambrosio, Luigi, 2002d:49002**
School:
Calculus of Variations and Partial Differential Equations *see* **Ambrosio, Luigi, 2002d:49002**
Wellposedness in optimization and related topics ★ Wellposedness in optimization and related topics.

Items with secondary classifications in 49–06

(Abramov, A. P.) *see* **Operations research (models, systems, solutions), 2002m:90006**
(Aseev, S. M.) *see* **Geometric control theory, 2002j:00013b**
(Carathéodory, Constantin) *see* **Advances in convex analysis and global optimization, 2002b:90003**
(Feichtinger, Gustav) *see* **Economic applications of optimal control**
(Fichera, Gaetano) *see* **From convexity to nonconvexity, 2002e:00018**
(Gilbert, Robert P.) *see* **From convexity to nonconvexity, 2002e:00018**
(Glover, Bevil Milton) *see* **Optimization and related topics, 2002k:00028**
(Grötschel, Martin) *see* **Online optimization of large scale systems, 2002d:90004**
(Hadjisavvas, Nicolas) *see* **Advances in convex analysis and global optimization, 2002b:90003**
(Hartl, Richard F.) *see* **Economic applications of optimal control**
(Izmailova, Z. A.) *see* **Conference: Pontryagin, Lev Semenovich, Geometrical Control Theory, 2002j:00013a** *and* **Geometric control theory, 2002j:00013b**
(Kort, Peter M.) *see* **Economic applications of optimal control**
(Krasnopolina, E. I.) *see* **Conference: Pontryagin, Lev Semenovich, Optimal Control, 2002m:00024**
(Krumke, Sven O.) *see* **Online optimization of large scale systems, 2002d:90004**
(Panagiotopoulos, Panagiotis D.) *see* **From convexity to nonconvexity, 2002e:00018**
(Pardalos, Panos M.) *see* **Advances in convex analysis and global optimization, 2002b:90003** *and* **From convexity to nonconvexity, 2002e:00018**
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Birth of Pontryagin, Lev Semenovich ★ Геометрическая теория управления. (Russian) [Geometric control theory] **2002j:00013b**
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49Jxx Existence theories

49J05 Free problems in one independent variable

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49J10 Free problems in two or more independent variables

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49J15 Optimal control problems involving ordinary differential equations

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49J25 Optimal control problems involving equations with retarded arguments [see also 34K35]

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49K22 Problems involving integral equations

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49K30 Optimal solutions belonging to restricted classes

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49K35 Minimax problems

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49K40 Sensitivity, stability, well-posedness [see also 90C31]

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49Lxx Hamilton-Jacobi theories, including dynamic programming

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49L99 None of the above, but in this section

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49Mxx Methods of successive approximations [see also 90Cxx, 65Kxx]

49M05 Methods based on necessary conditions

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49M15 Methods of Newton-Raphson, Galerkin and Ritz types

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49Nxx Miscellaneous topics

49N05 Linear optimal control problems [see also 93C05]

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49N15 Duality theory

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49N20 Periodic optimization

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49N25 Impulsive optimal control problems

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49N35 Optimal feedback synthesis [see also 93B52]

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49Q05 Minimal surfaces [see also 53A10, 58E12]

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"Shape reconstruction of buried obstacles by controlled evolution of a level set: from a min-max formulation to numerical experimentation" Corrigendum: "Shape reconstruction of buried obstacles by controlled evolution of a level set: from a min-max formulation to numerical experimentation" [Inverse Problems **17** (2001), no. 4, 1087–1111; 1861503] by C. Ramananjaona, M. Lambert, D. Lesselier and J.-P. Zolésio.

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49Q12 Sensitivity analysis

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— On hypersurfaces in $\mathbf{R}^{n+1}$ with integral bounds on curvature. (English summary) **2002a:49059**
De Pauw, Thierry Nearly flat almost monotone measures are big pieces of Lipschitz graphs. (English summary) **2002m:49063**
Fakharzadeh J., A. (*with* Rubio, J. E.) Shape-measure method for solving elliptic optimal shape problems (fixed control case). (English and Persian summaries)
Ferchichi, Jamel (*with* Zolésio, Jean-Paul) Shape derivative on a fractured manifold. (English summary) **2002a:49060**
Huang, Chao Cheng (*with* Miller, David F.) Variations of constrained domain functionals associated with boundary-value problems. (English summary) **2002e:49067**
Kaminskiĭ, V. A. Domain variation for optimization of convex functional. (English summary) (*see* **2002f:00015**)
Marmorat, Jean-Paul *see* **Cagnol, John et al., 2002b:49074**
Miller, David F. *see* **Huang, Chao Cheng, 2002e:49067**
Myśliński, Andrzej M. Domain optimization for unilateral problems by an embedding domain method. (English summary) **2002b:49075**
Rubio, J. E. *see* **Fakharzadeh J., A.**
Vodop'yanov, S. K. $\mathcal{P}$-differentiability on Carnot groups in different topologies and related topics. (English summary) **2002h:49068**
Zhang, Xue Shan Non-existence of stable currents in hypersurfaces. (English summary) **2002c:49079**
Zolésio, Jean-Paul *see* **Ferchichi, Jamel, 2002a:49060** *and* **Cagnol, John et al., 2002b:49074**

Items with secondary classifications in 49Q15

Abouqateb, A. (*with* El Kacimi Alaoui, A.) Fonctionnelles invariantes et courants basiques. (French summary) [Invariant functionals and basic currents] **2002e:58006**
Braides, Andrea Free discontinuity problems and their non-local approximation. (*see* **2002d:49002**)
Chavel, Isaac ★ Isoperimetric inequalities. (English summary) **2002h:58040**
David, Guy (*with* Kenig, Carlos E.; Toro, Tatiana) Asymptotically optimally doubling measures and Reifenberg flat sets with vanishing constant. **2002g:28007**
Delladio, Silvano Differential geometry of generalized submanifolds. (English summary) **2002a:53095**
El Kacimi Alaoui, A. *see* **Abouqateb, A., 2002e:58006**
El Kasimi, Abdeslem Problème du bord dans les compactifiés de $\mathbb{C}^n$. (English and French summaries) [Boundary problem for compactifications of $\mathbb{C}^n$] **2002b:32016**
Engl, Heinz W. *see* **Felici, Thomas, 2002h:78024**
Felici, Thomas (*with* Engl, Heinz W.) On shape optimization of optical waveguides using inverse problem techniques. (English summary) **2002h:78024**

Fremiot, G. (*with* Sokołowski, Jan) Hadamard formula in nonsmooth domains and applications. (English summary) **2002c:49078**
Garreau, Stéphane (*with* Guillaume, Philippe; Masmoudi, Mohamed) The topological asymptotic for PDE systems: the elasticity case. (English summary) **2002m:49062**
Grabovsky, Yury Homogenization in an optimal design problem with quadratic weakly discontinuous objective functional. (English summary)
Guillaume, Philippe *see* **Garreau, Stéphane et al., 2002m:49062**
Kenig, Carlos E. *see* **David, Guy et al., 2002g:28007**
Klötzler, R. Minimal surfaces as webs of optimal transportation flows. (English summary) **2002a:49043**
Masmoudi, Mohamed *see* **Garreau, Stéphane et al., 2002m:49062**
Mucci, Domenico A characterization of graphs which can be approximated in area by smooth graphs. (English summary) **2002e:49068**
Rota, Gian-Carlo The adventures of measure theory. **2002g:28008**
Sokołowski, Jan *see* **Fremiot, G., 2002c:49078**
Toro, Tatiana *see* **David, Guy et al., 2002g:28007**

49Q20 Variational problems in a geometric measure-theoretic setting

Ambrosio, Luigi (*with* Caselles, Vicent; Masnou, Simon; Morel, Jean-Michel) Connected components of sets of finite perimeter and applications to image processing. (English summary) **2002g:49072**
Baldo, Sisto (*with* Orlandi, Giandomenico) Fiber bundles and regular approximation of codimension-one cycles. (English summary) **2002g:49073**
Benamou, Jean-David (*with* Brenier, Yann) Mixed L^2-Wasserstein optimal mapping between prescribed density functions. (English summary) **2002h:49069**
Bouchitté, Guy (*with* Buttazzo, Giuseppe) Characterization of optimal shapes and masses through Monge-Kantorovich equation. (English summary) **2002c:49080**
Brenier, Yann *see* **Benamou, Jean-David, 2002h:49069**
Buttazzo, Giuseppe *see* **Bouchitté, Guy, 2002c:49080**
Caselles, Vicent *see* **Ambrosio, Luigi et al., 2002g:49072**
Chentsov, A. G. Finitely additive measures and extension constructions. (English summary) **2002k:49083**
Delladio, Silvano Generalized unit normal bundles. (English summary) **2002d:49056**
Feldman, Mikhail (*with* McCann, Robert J.) Monge's transport problem on a Riemannian manifold. (English summary) **2002h:49070**
Giaquinta, Mariano (*with* Modica, Giuseppe) On sequences of maps with equibounded energies. **2002k:49084**
Grabovsky, Yury Optimal design problems for two-phase conducting composites with weakly discontinuous objective functionals. (English summary) **2002k:49085**
Kružík, Martin (*with* Prohl, Andreas) Young measure approximation in micromagnetics. (English summary) **2002i:49055**
Leonardi, Gian Paolo Infiltrations in immiscible fluids systems. (English summary) **2002c:49081**
Levin, Vladimir L. On generic uniqueness of optimal solutions for the general Monge-Kantorovich problem. (English summary) **2002j:49051**
Masnou, Simon *see* **Ambrosio, Luigi et al., 2002g:49072**
McCann, Robert J. *see* **Feldman, Mikhail, 2002h:49070**
Modica, Giuseppe *see* **Giaquinta, Mariano, 2002k:49084**
Monti, Roberto (*with* Serra Cassano, Francesco) Surface measures in Carnot-Carathéodory spaces. (English summary) **2002j:49052**
Mora, Maria Giovanna (*with* Morini, Massimiliano) Functionals depending on curvatures with constraints. (English summary) **2002a:49061**
Morel, Jean-Michel *see* **Ambrosio, Luigi et al., 2002g:49072**
Morini, Massimiliano *see* **Mora, Maria Giovanna, 2002a:49061**
Mucci, Domenico A characterization of graphs which can be approximated in area by smooth graphs. (English summary) **2002e:49068**
Orlandi, Giandomenico *see* **Baldo, Sisto, 2002g:49073**
Prohl, Andreas *see* **Kružík, Martin, 2002i:49055**
Rigot, Séverine Ensembles quasi-minimaux avec contrainte de volume et rectifiabilité uniforme. (English and French summaries) [Quasiminimal sets with volume constraint and uniform rectifiability] **2002j:49053**
Serra Cassano, Francesco *see* **Monti, Roberto, 2002j:49052**
Trudinger, Neil S. (*with* Wang, Xu-Jia) On the Monge mass transfer problem. (English summary) **2002g:49074**
Wang, Xu-Jia *see* **Trudinger, Neil S., 2002g:49074**

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Alberti, Giovanni (*with* Müller, Stefan[1]) A new approach to variational problems with multiple scales. (English summary) **2002f:49016**
Almgren, Frederick J., Jr. ★ Plateau's problem. (English summary) **2002i:49001**
Artstein, Zvi Projections on convex sets in the relaxed limit. (English summary) **2002g:49027**
Balder, Erik J. On ws-convergence of product measures. (English summary) **2002h:60004**
Bělík, Pavel (*with* Brule, Timothy; Luskin, Mitchell) On the numerical modeling of deformations of pressurized martensitic thin films. (English summary) **2002d:74050**
Boscain, Ugo (*with* Piccoli, Benedetto) Morse properties for the minimum time function on 2-D manifolds. (English summary) **2002e:58032**
Brenier, Yann A Monge-Kantorovich approach to the Maxwell equations. (English summary) (*see* **2002k:76005**)
Bruckstein, Alfred M. *see* **Lebanon, Guy, 2002e:78001**
Brule, Timothy *see* **Bělík, Pavel et al., 2002d:74050**
Carstensen, Carsten Numerical analysis of microstructure. (English summary) (*see* **2002d:65004**)
Chambolle, Antonin Convex representation for lower semicontinuous envelopes of functionals in L^1. (English summary) **2002c:49021**
Chruściel, Piotr T. (*with* Fu, Joseph H. G.; Galloway, Gregory J.; Howard, Ralph E.) On fine differentiability properties of horizons and applications to Riemannian geometry. (English summary) **2002k:53136**
Concus, Paul (*with* Finn, Robert S.; McCuan, John) Liquid bridges, edge blobs, and Scherk-type capillary surfaces. (English summary) **2002g:76023**
Egozcue, Juan José *see* **Meziat, René et al., 2002e:49006**
Finn, Robert S. *see* **Concus, Paul et al., 2002g:76023**
Fu, Joseph H. G. *see* **Chruściel, Piotr T. et al., 2002k:53136**
Galloway, Gregory J. *see* **Chruściel, Piotr T. et al., 2002k:53136**
Galperin, Efim A. (*with* Yanev, N. M.) One-dimensional analogue of the global optimality criterion. **2002j:90075**
Gangbo, Wilfrid (*with* McCann, Robert J.) Shape recognition via Wasserstein distance. (English summary) **2002k:94006**
Giga, Yoshikazu *see* **Kobayashi, Ryo, 2002e:74039**
Golubin, A. Yu. On a convex optimization problem in a measure space with moment constraints. (Russian. Russian summary) **2002h:49034**
Grisanti, Carlo-Romano On a functional depending on curvature and edges. **2002d:49004**
(Gunning, Robert) *see* **Almgren, Frederick J., Jr., 2002i:49001**
Hajłasz, Piotr Sobolev mappings, co-area formula and related topics. (English summary) **2002h:28005**
Harrison, Jenny Continuity of the integral as a function of the domain. (English summary) **2002b:58004**
— Isomorphisms of differential forms and cochains. (English summary) **2002b:58005**
Howard, Ralph E. *see* **Chruściel, Piotr T. et al., 2002k:53136**
Ieşan, D. (*with* Nappa, L.) Extremum principles and existence results in micromorphic elasticity. (English summary) **2002e:74006**
Johnson, David Lewis *see* **Morgan, Frank, 2002e:53043**
Kobayashi, Ryo (*with* Giga, Yoshikazu) On anisotropy and curvature effects for growing crystals. (English summary) **2002e:74039**
Lebanon, Guy (*with* Bruckstein, Alfred M.) Variational approach to moiré pattern synthesis. (English summary) **2002e:78001**
Lin, Fang-Hua Varifold type theory for Sobolev mappings. **2002c:58026**
Luskin, Mitchell *see* **Bělík, Pavel et al., 2002d:74050**
Mabrouk, Mongi Un principe variationnel pour une équation non linéaire du second ordre en temps. (English and French summaries) [A variational principle for a nonlinear equation of second order in time] **2002a:49062**
McCann, Robert J. Polar factorization of maps on Riemannian manifolds. (English summary) **2002g:58017**
— *see also* **Gangbo, Wilfrid, 2002k:94006**
McCuan, John *see* **Concus, Paul et al., 2002g:76023**
Meziat, René (*with* Egozcue, Juan José; Pedregal, Pablo) The method of moments for nonconvex variational problems. (English summary) **2002e:49006**
Molchanov, I. S. (*with* Zuev, S. A.) Variational calculus in the space of measures and optimal design. (English summary) **2002b:62079**
Morgan, Frank (*with* Johnson, David Lewis) Some sharp isoperimetric theorems for Riemannian manifolds. (English summary) **2002e:53043**
Müller, Stefan[1] *see* **Alberti, Giovanni, 2002f:49016**
Muñoz, Julio (*with* Pedregal, Pablo) A refinement on existence results in nonconvex optimal control. **2002i:49004**
Murofushi, Toshiaki *see* **Narukawa, Yasuo, (2002c:00037)**
Nappa, L. *see* **Ieşan, D., 2002e:74006**
Narukawa, Yasuo (*with* Murofushi, Toshiaki) Space of fuzzy measures. (*see* **2002c:00037**)
Novaga, Matteo (*with* Paolini, Emanuele) A computational approach to fractures in crystal growth. (English and Italian summaries) **2002b:74050**
Pansu, Pierre Profil isopérimétrique, métriques périodiques et formes d'équilibre des cristaux. (English and French summaries) [Isoperimetric profile, periodic metrics and equilibrium shapes of crystals] **2002g:53051**
Paolini, Emanuele *see* **Novaga, Matteo, 2002b:74050**
Pedregal, Pablo *see* **Meziat, René et al., 2002e:49006** *and* **Muñoz, Julio, 2002i:49004**
Piccoli, Benedetto *see* **Boscain, Ugo, 2002e:58032**
Rigot, Séverine Ensembles quasiminimaux pour le périmètre avec contrainte de volume et rectifiabilité uniforme. [Quasiminimizing sets for the perimeter with volume constraint and uniform rectifiability] **2002h:49061**
(Rossi, Hugo) *see* **Almgren, Frederick J., Jr., 2002i:49001**
Sapiro, Guillermo ★ Geometric partial differential equations and image analysis. (English summary) **2002a:68142**
Swanson, David (*with* Ziemer, William P.) A topological aspect of Sobolev mappings. (English summary) **2002m:46056**
(Taylor, Jean E.) *see* **Almgren, Frederick J., Jr., 2002i:49001**
Wen, Yu Liang Minimal α-division in $\mathbf{R}^N$. (Chinese. English and Chinese summaries) **2002c:58023**
Yanev, N. M. *see* **Galperin, Efim A., 2002j:90075**
Ziemer, William P. *see* **Swanson, David, 2002m:46056**
Zuev, S. A. *see* **Molchanov, I. S., 2002b:62079**

49Q99 None of the above, but in this section

Items with secondary classifications in 49Q99

Chiu, Sungnok *see* **Molchanov, I. S. et al., 2002f:74062**
Molchanov, I. S. (*with* Chiu, Sungnok; Zuev, S. A.) Design of inhomogeneous materials with given structural properties. (English summary) **2002f:74062**
Osher, Stanley J. (*with* Santosa, Fadil) Level set methods for optimization problems involving geometry and constraints. I. Frequencies of a two-density inhomogeneous drum. (English summary) **2002f:65088**
Santosa, Fadil *see* **Osher, Stanley J., 2002f:65088**
Zuev, S. A. *see* **Molchanov, I. S. et al., 2002f:74062**

49R50 Variational methods for eigenvalues of operators [see also 47A75]

Auchmuty, Giles Variational principles for self-adjoint elliptic eigenproblems. (English

summary) **2002m:49064**
Bock, Igor On optimal control problems connected with eigenvalue variational inequalities. (English summary) **2002b:49076**
Harrell, Evans M., II (*with* Kröger, Pawel; Kurata, Kazuhiro) On the placement of an obstacle or a well so as to optimize the fundamental eigenvalue. (English summary) **2002g:49075**
Kröger, Pawel *see* **Harrell, Evans M., II et al., 2002g:49075**
Kurata, Kazuhiro *see* **Harrell, Evans M., II et al., 2002g:49075**
Marcus, Moshe (*with* Shafrir, Itai) An eigenvalue problem related to Hardy's L^p inequality. (English summary) **2002c:49082**
Shafrir, Itai *see* **Marcus, Moshe, 2002c:49082**

Items with secondary classifications in 49R50

Ashbaugh, Mark S. Open problems on eigenvalues of the Laplacian. (English summary) **2002j:35233**
Chen, Mu Fa Explicit bounds of the first eigenvalue. (English summary) **2002a:60127**
Diaconis, Persi (*with* Saloff-Coste, Laurent) Bounds for Kac's master equation. (English summary) **2002e:60107**
Durán, Mario (*with* Miguez, Marcela; Nédélec, Jean-Claude) Numerical stability in the calculation of eigenfrequencies using integral equations. (English summary) **2002a:65168**
Gregory, John[1] (*with* Peters, Matthew) On the solution of constrained wave equation problems and an example of constrained energy laws for PDE's. (English summary) **2002k:49078**
Lavilledieu, Philippe (*with* Seeger, Alberto) Existence de valeurs propres pour les systèmes multivoques: résultats anciens et nouveaux. (English and French summaries) [Existence of eigenvalues for multivalued systems: old and new results] **2002h:47099**
Miguez, Marcela *see* **Durán, Mario et al., 2002a:65168**
Motreanu, Dumitru Location of solutions to eigenvalue problems for hemivariational inequalities. (English summary) **2002f:49013**
Nédélec, Jean-Claude *see* **Durán, Mario et al., 2002a:65168**
Peters, Matthew *see* **Gregory, John[1], 2002k:49078**
Saloff-Coste, Laurent *see* **Diaconis, Persi, 2002e:60107**
Seeger, Alberto *see* **Lavilledieu, Philippe, 2002h:47099**

49S05 Variational principles of physics

Mabrouk, Mongi Un principe variationnel pour une équation non linéaire du second ordre en temps. (English and French summaries) [A variational principle for a nonlinear equation of second order in time] **2002a:49062**

Items with secondary classifications in 49S05

Bracken, Paul A differential geometric approach to the Helmholtz equations and an application to a space with a nontrivial Riemannian metric. (English summary) **2002j:70020**
Carbone, Luciano (*with* Cioranescu, Doina; De Arcangelis, Riccardo; Gaudiello, Antonio) An approach to the homogenization of nonlinear elastomers in the case of the fixed constraints set. (English and Italian summaries) **2002e:74042**
Carini, Angelo (*with* Genna, Francesco) Variational formulations in the non-associated flow theory of plasticity. (English summary) **2002f:74011**
Cioranescu, Doina *see* **Carbone, Luciano et al., 2002e:74042**
De Arcangelis, Riccardo *see* **Carbone, Luciano et al., 2002e:74042**
Fuchs, Martin[2] (*with* Serëgin, G. A.) A two-dimensional variational model for the equilibrium configuration of an incompressible, elastic body with a three-well elastic potential. (English summary) **2002b:74006**
Gaudiello, Antonio *see* **Carbone, Luciano et al., 2002e:74042**
Genna, Francesco *see* **Carini, Angelo, 2002f:74011**
Hu, Haichang *see* **Liang, Li Fu, 2002j:70019**
Jiang, J. Samuel (*with* Kaper, Hans G.; Leaf, Gary K.) Hysteresis in layered spring magnets. (English summary) **2002a:82111**
Johnpillai, A. G. (*with* Kara, A. H.) Variational formulation of approximate symmetries and conservation laws. (English summary) **2002j:58031**
Kaiser, Ralf (*with* Schmitt, Burkhard J.) Bounds on the energy stability limit of plane parallel shear flows. (English summary) **2002f:76040**
Kaper, Hans G. *see* **Jiang, J. Samuel et al., 2002a:82111**
Kara, A. H. *see* **Johnpillai, A. G., 2002j:58031**
Kasimov, A. R. Optimal shape of a variable condenser. (English summary) **2002f:78005**
Kasymbekova, A. S. On a variational principle for a loaded parabolic equation. (Russian. English, Russian and Kazakh summaries) **2002m:35090**
Kats, A. V. Variational principle and canonical variables in hydrodynamics with discontinuities. (English summary) **2002g:76030**
Leaf, Gary K. *see* **Jiang, J. Samuel et al., 2002a:82111**
Liang, Li Fu (*with* Hu, Haichang) Generalized variational principles of three kinds of variables in general mechanics. (English summary) **2002j:70019**
Milewski, Jan Noether theorems for higher rank functionals. (English, Russian and Ukrainian summaries) **2002k:70055**
Núñez-Yépez, H. N. (*with* Salas-Brito, A. L.) Jacobi equations using a variational principle. (English summary) **2002i:70022**
Salas-Brito, A. L. *see* **Núñez-Yépez, H. N., 2002i:70022**
Schmitt, Burkhard J. *see* **Kaiser, Ralf, 2002f:76040**
Serëgin, G. A. *see* **Fuchs, Martin[2], 2002b:74006**
Wen, Guo Chun *see* **Xu, Zuo Liang, 2002h:30050**
Xu, Zuo Liang (*with* Wen, Guo Chun) Variation-difference method for solving boundary value problems for linear elliptic complex equations. (English summary) **2002h:30050**

51–XX Geometry {For algebraic geometry, see 14–XX.}

51–01 Instructional exposition (textbooks, tutorial papers, etc.)

Dergiades, Nikolaos The Gergonne problem. (English summary)
Emelyanov, Lev (*with* Emel'yanova, T. L.) A note on the Feuerbach point. (English summary)
— (*with* Emel'yanova, T. L.) Euler's formula and Poncelet's porism.
Emel'yanova, T. L. *see* **Emelyanov, Lev**
Gómez, Blas Herrera The notable configuration of inscribed equilateral triangles in a triangle.
Hatzipolakis, Antreas P. (*with* Yiu, Paul) Pedal triangles and their shadows. (English summary)
Kimberling, Clark Multiplying and dividing curves by points. (English summary)
— Conics associated with a Cevian nest. (English summary)
Myakishev, Alexei Some properties of the Lemoine point. (English summary)
Prasolov, V. V. (*with* Tikhomirov, V. M.) ★ Geometry. (English summary) **2002d:51001**
Rovenskiĭ, Vladimir ★ Geometry of curves and surfaces with MAPLE. (English summary) **2002b:51001**
Shawyer, Bruce Some remarkable concurrences. (English summary)
(Sipacheva, Ol'ga V.) *see* **Prasolov, V. V., 2002d:51001**
Tikhomirov, V. M. *see* **Prasolov, V. V., 2002d:51001**
Yiu, Paul *see* **Hatzipolakis, Antreas P.**

Items with secondary classifications in 51–01

Berger, Marcel Peut-on définir la géométrie aujourd'hui? [Can one define geometry today?] **2002g:00001**
Flegg, H. Graham ★ From geometry to topology. (English summary)
(Hilton, Peter) *see* **Walser, Hans, 2002h:00005**
Holme, Audun ★ Geometry. (English summary) **2002m:01001**
Johnson, David Lawrence ★ Symmetries. (English summary) **2002m:20001**
(Pedersen, Jean) *see* **Walser, Hans, 2002h:00005**
Walser, Hans ★ The golden section. (English summary) **2002h:00005**

51–02 Research exposition (monographs, survey articles)

Biliotti, Mauro (*with* Jha, Vikram; Johnson, Norman Lloyd[1]) ★ Foundations of translation planes. (English summary) **2002i:51001**
Jha, Vikram *see* **Biliotti, Mauro et al., 2002i:51001**
Johnson, Norman Lloyd[1] *see* **Biliotti, Mauro et al., 2002i:51001**

Items with secondary classifications in 51–02

(Faugeras, Olivier) *see* **Hartley, Richard, 2002g:68148**
Hartley, Richard (*with* Zisserman, Andrew) ★ Multiple view geometry in computer vision. (English summary) **2002g:68148**
Semmes, Stephen ★ Some novel types of fractal geometry. **2002h:53073**
Zisserman, Andrew *see* **Hartley, Richard, 2002g:68148**

51–03 Historical (must also be assigned at least one classification number from Section 01)

Hrdličková, Jitka The origin and development of linear geometry. (Czech)
— The history of cyclography. (Czech)
Jeffers, Jason Lost theorems of geometry. **2002g:51001**
Žitný, Karel (*with* Zolotarev, Igor) Is projective geometry burdened by the unbearable weight of history? (Czech) (*see* **2002k:01004**)
Zolotarev, Igor *see* **Žitný, Karel, (2002k:01004)**
Zuščák, Tomáš The Sobotka solutions of the Apollonius problem. (Czech)

Items with secondary classifications in 51–03

Bashmakova, Izabella Grigor'evna (*with* Smirnova, G. S.) Geometry: the first universal language of mathematics. (*see* **2002k:01001**)
Bottazzini, Umberto Italian geometers and the problem of foundations (1889–1899). (Italian) **2002m:01016**
— Italian geometers and Hilbert's *Grundlagen der Geometrie*. (Italian) **2002j:01011**
Carson, Emily Kant on intuition in geometry. **2002m:01015**
(Cherkasova, E. V.) *see* **Bashmakova, Izabella Grigor'evna, (2002k:01001)**
Čižmár, Ján The origins and the formulation of principles of n-dimensional geometry (1840–1870). (Czech) (*see* **2002k:01004**)
(Flauti, Vincenzo) *see* **Gatto, Romano, 2002b:01027**
Freguglia, Paolo Studies on the foundations of mathematics in the second half of the nineteenth century, with particular emphasis on the situation in Italy. (Italian) **2002c:01033**
Gatto, Romano The debate about methods and Vincenzo Flauti's challenge to the mathematicians of the Kingdom of Naples. (Italian. English and Italian summaries) **2002b:01027**
Herz-Fischler, Roger ★ The shape of the Great Pyramid. (English summary) **2002f:01002**
(Hilbert, David[1]) *see* **Bottazzini, Umberto, 2002j:01011** *and* **Mammana, Carmelo, 2002m:01018**
(Kant, Immanuel) *see* **Carson, Emily, 2002m:01015**
Kolář, Ivan The Erlangen program. (Czech) (*see* **2002k:01004**)
Lávička, Miroslav Josef Vojtěch Sedláček and analytical geometry. (Czech)
Mammana, Carmelo The *Grundlagen der Geometrie* and geometry textbooks in Italy. (Italian) **2002m:01018**
Mlodinow, Leonard ★ Euclid's window. (English summary) **2002c:01002**
Nabonnand, Philippe La polémique entre Poincaré et Russell au sujet du statut des axiomes de la géométrie. (English and French summaries) [The polemic between Poincaré and Russell about the status of the axioms of geometry] **2002j:01012**
Quintero Zazueta, Ricardo Fermat's invention of analytic geometry. (Spanish. Spanish summary) **2002m:01014**
(Rokhlin, V. A.) *see* **Sudakov, V. N., 2002b:01044** *and* **(2002b:00029)**
(Sedláček, Josef Vojtěch) *see* **Lávička, Miroslav**
(Shenitzer, Abe) *see* **Bashmakova, Izabella Grigor'evna, (2002k:01001)**
Smirnova, G. S. *see* **Bashmakova, Izabella Grigor'evna, (2002k:01001)**
Sudakov, V. N. The unrealized project of V. A. Rokhlin. (Russian) **2002b:01044**
— An unfinished project of V. A. Rokhlin. (*see* **2002b:00029**)
Suppes, Patrick Finitism in geometry. **2002b:03024**
Ursini, Sonia The contributions of Gauss to hyperbolic geometry: his correspondence with the mathematicians and scientists of his era. (Spanish) **2002i:01014**
Więsław, Witold Squaring the circle in XVI–XVIII centuries. (*see* **2002g:01001**)

Items listed otherwise than by author

Biography:
Sedláček, Josef Vojtěch *see* **Lávička, Miroslav**

51–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 51–04

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51A15 Structures with parallelism

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51A30 Desarguesian and Pappian geometries

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51A99 None of the above, but in this section

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51Bxx Nonlinear incidence geometry

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51B20 Minkowski geometries

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51B25 Lie geometries

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51B99 None of the above, but in this section

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51Dxx Geometric closure systems

51D15 Abstract geometries with parallelism

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51D20 Combinatorial geometries [see also 05B25, 05B35]

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51D25 Lattices of subspaces [see also 05B35]

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51Exx Finite geometry and special incidence structures

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51E05 General block designs [see also 05B05]

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51E12 Generalized quadrangles, generalized polygons

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De Bruyn, Bart On the number of nonisomorphic glued near hexagons. (English summary) **2002b:51011**
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Storme, L. *see* **Eisfeld, J. et al., 2002g:05044**
Stroppel, Markus Compact three-dimensional elation quadrangles. (English summary) **2002a:51020**
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51E14 Finite partial geometries (general), nets, partial spreads

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Dover, Jeremy M. Subregular spreads of PG$(5, 2^e)$. (English summary) **2002g:51010**
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— Maximal partial spreads and the modular n-queen problem. III. (English summary) **2002m:51003**
Johnson, Norman Lloyd[1] Two-transitive parallelisms. (English summary) **2002h:51004**
Makhnev, A. A. Partial geometries, their extensions, and related graphs. **2002a:51008**
Marcu, Dănuţ Note on spreads and partial spreads. (English summary) **2002f:51011**
Mathon, Rudolf *see* **Hamilton, Nicholas, 2002f:51010**
Panigrahi, Pratima The non-collinearity graph of the $O^+(8, 2)$ quadric is uniquely geometrisable. (English summary) **2002c:51005**
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Biliotti, Mauro (*with* Jha, Vikram; Johnson, Norman Lloyd[1]) ★ Foundations of translation planes. (English summary) **2002i:51001**
Buratti, Marco Constructions for point-regular linear spaces. (English summary) **2002a:05055**
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Jha, Vikram *see* **Biliotti, Mauro et al., 2002i:51001**
Johnson, Norman Lloyd[1] *see* **Biliotti, Mauro et al., 2002i:51001**
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51E15 Affine and projective planes

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Batten, Lynn Margaret Decompositions of finite projective planes. (English summary) **2002j:51005**
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Çelik, Basri On some hyperbolic planes from finite projective planes. (English summary) **2002g:51011**
Di Monte, Rossella (*with* Ferri, Osvaldo; Ferri, Stefania) Characterization of quadric cones in a Galois projective space. (English summary) **2002a:51011**
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Ferri, Osvaldo *see* **Di Monte, Rossella et al., 2002a:51011**
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Jungnickel, Dieter *see* **Blokhuis, Aart et al., 2002k:51007**
van Maldeghem, Hendrik *see* **Thas, Joseph A., 2002a:51012**
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— (*with* Jha, Vikram; Johnson, Norman Lloyd[1]) Two-transitive parabolic ovals. (English summary) **2002d:51009**
Brutti, Paolo *see* **Basile, Alessandro, 2002d:51004**
Cerroni, Cinzia (*with* Schulz, Ralph-Hardo) Divisible designs admitting GL$(3, q)$ as an automorphism group. (English summary) **2002a:05057**
Cooperstein, B. N. (*with* Shult, E. E.) A note on embedding and generating dual polar spaces. (English summary) **2002c:51002**
Cossidente, Antonio (*with* Ebert, Gary L.; Korchmáros, Gábor) Unitals in finite Desarguesian planes. (English summary) **2002k:51010**

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— *see also* **Abatangelo, Vito et al., 2002c:51006** *and* **Cossidente, Antonio et al., 2002k:51010**
Landgev, Ivan N. (*with* Honold, Thomas) Arcs in projective Hjelmslev planes. (Russian. Russian summary) **2002i:51008**
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51E20 Combinatorial structures in finite projective spaces [see also 05Bxx]

Abatangelo, Vito (*with* Korchmáros, Gábor; Larato, B.) Transitive parabolic unitals in translation planes of odd order. (English summary) **2002c:51006**
Aguglia, Angela (*with* Ebert, Gary L.) A combinatorial characterization of classical unitals. (English summary) **2002m:51005**
Bader, Laura (*with* Cossidente, Antonio; de Resmini, M. J.) Holey Segre varieties. (English summary) **2002f:51012**
Barwick, S. G. (*with* Quinn, Catherine T.) Generalising a characterisation of Hermitian curves. (English summary) **2002k:51009**
Cossidente, Antonio Mixed partitions of PG$(3, q)$. **2002f:51013**
— (*with* Ebert, Gary L.; Korchmáros, Gábor) Unitals in finite Desarguesian planes. (English summary) **2002k:51010**
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Giuzzi, L. Collineation groups of the intersection of two classical unitals. (English summary) **2002f:51014**
Korchmáros, Gábor *see* **Abatangelo, Vito et al., 2002c:51006** *and* **Cossidente, Antonio et al., 2002k:51010**
Larato, B. *see* **Abatangelo, Vito et al., 2002c:51006**
Quinn, Catherine T. *see* **Barwick, S. G., 2002k:51009**
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Cerroni, Cinzia (*with* Schulz, Ralph-Hardo) Divisible designs admitting GL$(3, q)$ as an automorphism group. (English summary) **2002a:05057**
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Davydov, Aleksandr A. (*with* Östergård, Patric R. J.) Recursive constructions of complete caps. (English summary) **2002c:51010**
De Bruyn, Bart On near-polygons and the Coxeter cap in PG$(5, 3)$. (English summary) **2002c:51011**
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Klein, Andreas Exterior sets of hyperbolic quadrics. (English summary) **2002b:51006**
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Lunardon, Guglielmo Linear k-blocking sets. (English summary) **2002h:51007**
van Maldeghem, Hendrik *see* **Thas, Joseph A., 2002b:51004**
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Schulz, Ralph-Hardo *see* **Cerroni, Cinzia, 2002a:05057**
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Wang, Kaishun (*with* Wei, Hongzeng) Geometric construction of association schemes from degenerate quadrics in projective spaces PG$(2\nu + \delta + l - 1, F_q)$ for q odd. (English summary) **2002a:05265**
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Xiang, Qing *see* **Ebert, Gary L. et al., 2002j:05152**

51E21 Blocking sets, ovals, k-arcs

Ball, Simeon (*with* Hill, Ray; Landgev, Ivan N.; Ward, Harold N.) On $(q^2 + q + 2, q + 2)$-arcs in the projective plane PG$(2, q)$. (English summary) **2002k:51011**
Batten, Lynn Margaret (*with* Dover, Jeremy M.) Blocking semiovals of type $(1, M + 1, N + 1)$. (English summary) **2002h:51006**
Biliotti, Mauro (*with* Jha, Vikram; Johnson, Norman Lloyd[1]) Two-transitive parabolic ovals. (English summary) **2002d:51009**
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Chao, Jin-Ming (*with* Kaneta, H.) Classical arcs in PG(r, q) for $23 \le q \le 29$. **2002b:51005**
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Giulietti, Massimo On plane arcs contained in cubic curves. (English summary) **2002j:51006**
Hamada, Noboru (*with* Helleseth, Tor) Arcs, blocking sets, and minihypers. (English summary) **2002f:51015**
Helleseth, Tor *see* **Hamada, Noboru, 2002f:51015**
Hill, Ray *see* **Ball, Simeon et al., 2002k:51011**
Honold, Thomas *see* **Landgev, Ivan N., 2002i:51008**
Jha, Vikram *see* **Biliotti, Mauro et al., 2002d:51009**
Johnson, Norman Lloyd[1] *see* **Biliotti, Mauro et al., 2002d:51009**
Kaneta, H. *see* **Chao, Jin-Ming, 2002b:51005**
Klein, Andreas Exterior sets of hyperbolic quadrics. (English summary) **2002b:51006**
Korchmáros, Gábor (*with* Siciliano, Alessandro; Sonnino, Angelo) 1-factorizations of complete multigraphs arising from finite geometry. (English summary) **2002f:51016**
Kovács, István[2] On the internal nuclei of sets in PG(n, q), q is odd. (English summary) **2002f:51017**
Landgev, Ivan N. (*with* Honold, Thomas) Arcs in projective Hjelmslev planes. (Russian. Russian summary) **2002i:51008**
— *see also* **Ball, Simeon et al., 2002k:51011**
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— Linear k-blocking sets. (English summary) **2002h:51007**
— (*with* Polverino, Olga) Blocking sets and derivable partial spreads. (English summary) **2002g:51012**
Luyckx, Deirdre Blocking $(n - 2)$-dimensional subspaces on $Q(2n, q)$. (English summary) **2002b:51007**
Mathon, Rudolf New maximal arcs in Desarguesian planes. (English summary) **2002k:51012**
Mazzocca, Francesco Some research problems in Galois geometry. (Italian. English summary) **2002a:51014**
McQuillan, James M. *see* **Bruen, Aiden A., 2002c:51007**
Polverino, Olga (*with* Storme, L.) Small minimal blocking sets in PG$(2, q^3)$. (English summary) **2002j:51007**
— *see also* **Lunardon, Guglielmo, 2002g:51012** *and* **(2002b:11002)**
Rinaldi, Gloria Complete unital-derived arcs in the Hall planes. (English summary) **2002j:51008**
Siciliano, Alessandro *see* **Korchmáros, Gábor et al., 2002f:51016**
Sonnino, Angelo *see* **Korchmáros, Gábor et al., 2002f:51016**
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— *see also* **Polverino, Olga, 2002j:51007**
Suetake, Chihiro Some blocking semiovals which admit a homology group. (English summary) **2002c:51008**
— Two families of blocking semiovals. (English summary) **2002c:51009**

Vereecke, Sam K. J. *see* **Storme, L., 2002m:51006**
Ward, Harold N. *see* **Ball, Simeon et al., 2002k:51011**

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Edel, Yves (*with* Bierbrauer, Jürgen) Large caps in small spaces. (English summary) **2002i:94076**
Füredi, Zoltán Maximal τ-critical linear hypergraphs. (English summary) **2002e:05141**
Hamilton, Nicholas (*with* Mathon, Rudolf) Existence and non-existence of m-systems of polar spaces. (English summary) **2002d:51005**
Mathon, Rudolf *see* **Hamilton, Nicholas, 2002d:51005**
O'Keefe, Christine M. (*with* Penttila, Tim) Subquadrangles of generalized quadrangles of order (q^2, q), q even. (English summary) **2002d:51007**
Penttila, Tim *see* **O'Keefe, Christine M., 2002d:51007**
Sonnino, Angelo One-factorizations of complete multigraphs arising from maximal $(k; n)$-arcs in $PG(2, 2^h)$. (English summary) **2002a:05203**
Storme, L. (*with* Sziklai, Péter) Linear point sets and Rédei type k-blocking sets in $PG(n, q)$. (English summary) **2002i:05025**
Sziklai, Péter *see* **Storme, L., 2002i:05025**
Thas, Joseph A. A result on spreads of the generalized quadrangle $T_2(O)$, with O an oval arising from a flock, and applications. (English summary) **2002f:51009**
— Flocks and partial flocks of quadrics: a survey. (English summary) **2002a:51009**

51E22 Linear codes and caps in Galois spaces [see also 94B05]

Abatangelo, Vito Classification of transitive caps in $PG(3, 5)$. (English summary) **2002a:51015**
Bierbrauer, Jürgen (*with* Edel, Yves) A family of caps in projective 4-space in odd characteristic. (English summary) **2002a:51016**
Cossidente, Antonio (*with* Labbate, Domenico; Siciliano, Alessandro) Veronese varieties over finite fields and their projections. (English summary) **2002b:51008**
— (*with* Siciliano, Alessandro) On the geometry of Hermitian matrices of order three over finite fields. (English summary) **2002k:51013**
Davydov, Aleksandr A. (*with* Östergård, Patric R. J.) Recursive constructions of complete caps. (English summary) **2002c:51010**
De Bruyn, Bart On near-polygons and the Coxeter cap in $PG(5, 3)$. (English summary) **2002c:51011**
Edel, Yves *see* **Bierbrauer, Jürgen, 2002a:51016**
Labbate, Domenico *see* **Cossidente, Antonio et al., 2002b:51008**
Östergård, Patric R. J. Computer search for small complete caps. (English summary) **2002a:51017**
— *see also* **Davydov, Aleksandr A., 2002c:51010**
Siciliano, Alessandro *see* **Cossidente, Antonio et al., 2002b:51008** *and* **2002k:51013**

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Babenko, A. G. *see* **Arestov, Vitalii V., 2002c:05045**
Ball, Simeon (*with* Hill, Ray; Landgev, Ivan N.; Ward, Harold N.) On $(q^2 + q + 2, q + 2)$-arcs in the projective plane $PG(2, q)$. (English summary) **2002k:51011**
Boyvalenkov, P. (*with* Danev, D.) Uniqueness of the 120-point spherical 11-design in four dimensions. (English summary) **2002f:05045**
Chen, Wende (*with* Kløve, Torleiv) Weight hierarchies of linear codes of dimension 3. (English summary) **2002b:94059**
Danev, D. *see* **Boyvalenkov, P., 2002f:05045**
Etzion, Tuvi On perfect codes in the Johnson scheme. (English summary) **2002a:94038**
Hill, Ray *see* **Ball, Simeon et al., 2002k:51011**
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Landgev, Ivan N. *see* **Ball, Simeon et al., 2002k:51011**
Maruta, Tatsuya On the nonexistence of q-ary linear codes of dimension five. (English summary) **2002c:94036**
Mathon, Rudolf New maximal arcs in Desarguesian planes. (English summary) **2002k:51012**
Mazzocca, Francesco Some research problems in Galois geometry. (Italian. English summary) **2002a:51014**
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51E23 Spreads and packing problems

Baker, Ronald D. (*with* Ebert, Gary L.; Wantz, K. L.) Regular hyperbolic fibrations. (English summary) **2002f:51018**
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51Fxx Metric geometry

51F05 Absolute planes

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51F10 Absolute spaces

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51Hxx Topological geometry

51H10 Topological linear incidence structures

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51H15 Topological nonlinear incidence structures

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51H20 Topological geometries on manifolds [see also 57–XX]

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51H25 Geometries with differentiable structure [see also 53Cxx, 53C70]

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51Jxx Incidence groups

51J05 General theory

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51K05 General theory

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51K10 Synthetic differential geometry

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51Lxx Geometric order structures [see also 53C75]

51L15 n-vertex theorems via direct methods

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51Mxx Real and complex geometry

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51M04 Elementary problems in Euclidean geometries

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51M05 Euclidean geometries (general) and generalizations

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Temesvári, Ágota H. (*with* Végh, Attila) Über die Dicke von $\langle p, q\rangle$-Punktsystemen in der euklidischen Ebene. [On the thickness of $\langle p, q\rangle$-point systems in the Euclidean plane] **2002h:52024**
Végh, Attila *see* **Temesvári, Ágota H., 2002h:52024**

51M09 Elementary problems in hyperbolic and elliptic geometries

Goodman-Strauss, Chaim Compass and straightedge in the Poincaré disk.
Horváth, Jenő On some properties of simplices in spaces of constant curvature. (English summary) **2002b:51015**
McKay, Angela An analogue of Napoleon's theorem in the hyperbolic plane. (English summary) **2002d:51012**

51M10 Hyperbolic and elliptic geometries (general) and generalizations

Brehm, Ulrich (*with* Et-Taoui, Boumediene) Congruence criteria for finite subsets of quaternionic elliptic and quaternionic hyperbolic spaces. (English summary) **2002f:51028**
Et-Taoui, Boumediene *see* **Brehm, Ulrich, 2002f:51028**
Kinyon, Michael K. (*with* Ungar, Abraham A.) The gyro-structure of the complex unit disk. **2002h:51011**
Li, Hongbo Hyperbolic geometry. (*see* **2002d:00019**)
Pambuccian, Victor On R. Baer's generalized hyperbolic planes. (English summary) **2002e:51011**
Pipitone, Vincenzo *see* **Russo, Giuseppe, 2002b:51016**
Pozo, Jose Maria (*with* Sobczyk, Garret) Realizations of the conformal group. (*see* **2002d:00019**)
Russo, Giuseppe (*with* Pipitone, Vincenzo) Classification of the second-order surfaces in a semi-Galilean space. (Italian. Italian summary) **2002b:51016**
Sobczyk, Garret *see* **Pozo, Jose Maria, (2002d:00019)**
Ungar, Abraham A. *see* **Kinyon, Michael K., 2002h:51011**

Items with secondary classifications in 51M10

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Benz, Walter Mappings preserving two hyperbolic distances. (English summary) **2002g:51017**
Csikós, Balázs On the volume of flowers in space forms. (English summary) **2002f:51029**
Dobbs, David E. A proof of the arithmetic-geometric mean inequality using non-Euclidean geometry. (English summary)
Gámez, Domingo (*with* Pasadas, Miguel; Pérez-Ocón, Rafael; Ruiz Garrido, Ceferino) Hyperbolic plane tesselations. (English summary) (*see* **2002h:00018**)
Henderson, David W. (*with* Taimina, Daina) Crocheting the hyperbolic plane. **2002d:01018**
List, Klaus Harmonic mappings and hyperbolic Plücker transformations. (English summary) **2002g:51002**
Masala, Giovanni Congruence theorem for 4-tuples in the Grassmann manifold $G_2(\mathbf{R}^8)$. (English summary) **2002d:53023**
Mednykh, Aleksandr D. *see* **Vesnin, A. Yu., 2002d:57017**
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— Constructive axiomatization of plane hyperbolic geometry. (English summary) **2002k:03018**
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Pasadas, Miguel *see* **Gámez, Domingo et al., (2002h:00018)**
Pérez-Ocón, Rafael *see* **Gámez, Domingo et al., (2002h:00018)**
Ruiz Garrido, Ceferino *see* **Gámez, Domingo et al., (2002h:00018)**
Taimina, Daina *see* **Henderson, David W., 2002d:01018**
Tölke, Jürgen A limit cycle in plane hyperbolic curve theory. (English summary) **2002e:53015**
Vesnin, A. Yu. (*with* Mednykh, Aleksandr D.) Three-dimensional hyperelliptic manifolds and Hamiltonian graphs. (Russian. Russian summary) **2002d:57017**

51M15 Geometric constructions

Alekhnovich, M. V. (*with* Belov, A. Ya.) Complexity of algorithms for constructions with compass and straight edge. (Russian. English and Russian summaries) **2002i:51014**
Belov, A. Ya. *see* **Alekhnovich, M. V., 2002i:51014**
Evans, Lawrence S. A rapid construction of some triangle centers. (English summary)
Hitt, L. Richard (*with* Zhang, Xin-Min) Dynamic geometry of polygons. **2002c:51015**
Hofstetter, Kurt A simple construction of the golden section. (English summary)
Kortenkamp, Ulrich Dynamische geometrie. (German summary) [Dynamic geometry]
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Shephard, G. C. Cyclic product theorems for polygons. II. Constructions using conic sections. (English summary) **2002h:51012**
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Items with secondary classifications in 51M15

Arnaudiès, J. M. (*with* Delezoide, P.) Nombres (2, 3)-constructibles. (French summary) [(2, 3)-constructible numbers] **2002b:11148**
Benz, Walter Functional equation problems in geometry. (English summary) **2002f:39052**
Delezoide, P. *see* **Arnaudiès, J. M., 2002b:11148**
Farouki, Rida T. (*with* Moon, Hwan Pyo; Ravani, Bahram) Minkowski geometric algebra of complex sets. (English summary) **2002d:65025**
Goodman-Strauss, Chaim Compass and straightedge in the Poincaré disk.
Henderson, David W. (*with* Taimina, Daina) Crocheting the hyperbolic plane. **2002d:01018**
Hilton, Peter (*with* Pedersen, Jean) Symmetry in theory—mathematics and aesthetics.
— (*with* Pedersen, Jean) Symmetry in practice—recreational constructions.
Kulpa, Zenon Diagrammatic representation for interval arithmetic. (English summary) **2002a:65077**
Moon, Hwan Pyo *see* **Farouki, Rida T. et al., 2002d:65025**
Pambuccian, Victor On R. Baer's generalized hyperbolic planes. (English summary) **2002e:51011**
Pedersen, Jean *see* **Hilton, Peter**
Ravani, Bahram *see* **Farouki, Rida T. et al., 2002d:65025**
Rovenskiĭ, Vladimir ★ Geometry of curves and surfaces with MAPLE. (English summary) **2002b:51001**
Snyder, John P. *see* **Yang, Qihe H. et al., 2002e:86006**
Taimina, Daina *see* **Henderson, David W., 2002d:01018**
Tobler, Waldo R. *see* **Yang, Qihe H. et al., 2002e:86006**
Yang, Qihe H. (*with* Snyder, John P.; Tobler, Waldo R.) ★ Map projection transformation. (English summary) **2002e:86006**

51M16 Inequalities and extremum problems {For convex problems, see 52A40.}

Abi-Khuzam, Faruk F. (*with* Barbara, Roy) A sharp inequality and the inradius conjecture. (English summary) **2002a:51021**
Barbara, Roy *see* **Abi-Khuzam, Faruk F., 2002a:51021**
He, Yong[1] (*with* Yang, Qifan) Steiner minimal trees for zigzag lines with ladders. (English summary) **2002c:51016**
Yang, Lu On Alexander's relative geometric inequality. (English and Chinese summaries)
Yang, Qifan *see* **He, Yong[1], 2002c:51016**

Items with secondary classifications in 51M16

Barequet, Gill A lower bound for Heilbronn's triangle problem in d dimensions. (English summary) **2002h:05159**
Hales, T. C. The honeycomb conjecture. (English summary) **2002a:52020**
Leng, Gangsong (*with* Ma, Tong Yi; Qian, Xiang Zheng) Inequalities for a simplex and an interior point. (English summary) **2002f:52004**
Ma, Tong Yi *see* **Leng, Gangsong et al., 2002f:52004**
Qian, Xiang Zheng *see* **Leng, Gangsong et al., 2002f:52004**
Sun, Mingbao Some inequalities for two simplices. (English summary) **2002f:52007**
Xiao, Jian Zhong (*with* Zhu, Xing Hua) Schur convex functions and inequalities of n-simplices. (Chinese. English and Chinese summaries) **2002j:52005**
Yang, Ding Hua A class of geometric inequalities of metric addition in spaces of constant curvature. (Chinese. English and Chinese summaries) **2002k:53150**
Yang, Lu Geometric identity combining the vertex angles of two simplexes and its applications. (Chinese. English and Chinese summaries)
Zhu, Xing Hua *see* **Xiao, Jian Zhong, 2002j:52005**

51M20 Polyhedra and polytopes; regular figures, division of spaces [see also 51F15]

DeTemple, Duane (*with* Hudelson, Matthew) Square-banded polygons and affine regularity. **2002m:51011**
Et-Taoui, Boumediene Equiangular lines in $\mathbf{C}^n$. (English summary) **2002a:51022**
Hudelson, Matthew *see* **DeTemple, Duane, 2002m:51011**
Pech, Pavel The harmonic analysis of polygons and Napoleon's theorem. (English summary) **2002k:51016**

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Fonf, Vladimir P. (*with* Kojman, Menachem) Countably convex G_δ sets. (English summary) **2002g:46018**
Gaboriau, Damien (*with* Paulin, Frédéric) Sur les immeubles hyperboliques. (English summary) [On hyperbolic buildings] **2002k:51014**
Hitotumatu, Sin On a computation of quantities of four dimensional regular polytopes. (English summary) **2002j:52008**
Hitt, L. Richard (*with* Zhang, Xin-Min) Dynamic geometry of polygons. **2002c:51015**
Israel, Robert B. *see* **Lisoněk, Petr, (2002b:68007)**
Khovanskiĭ, A. G. Three lectures on Newton polyhedra.
Kojman, Menachem *see* **Fonf, Vladimir P., 2002g:46018**

Korotov, Sergey (*with* Křížek, Michal) Acute type refinements of tetrahedral partitions of polyhedral domains. (English summary) **2002g:65144**
Křížek, Michal *see* **Korotov, Sergey, 2002g:65144**
Lisoněk, Petr (*with* Israel, Robert B.) Metric invariants of tetrahedra via polynomial elimination. (English summary) (*see* **2002b:68007**)
Mankiewicz, Piotr (*with* Schütt, Carsten) A simple proof of an estimate for the approximation of the Euclidean ball and the Delone triangulation numbers. (English summary) **2002b:52007**
Paulin, Frédéric *see* **Gaboriau, Damien, 2002k:51014**
Rieger, J. H. Proximity in arrangements of algebraic sets. (English summary) **2002a:52025**
Sabitov, I. Kh. Some applications of a formula for the volume of a polyhedron. (Russian) **2002j:52004**
Schütt, Carsten *see* **Mankiewicz, Piotr, 2002b:52007**
Smith, Alvy Ray Infinite regular hexagon sequences on a triangle. (English summary) **2002b:51014**
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51M25 Length, area and volume [see also 26B15]

Csikós, Balázs On the volume of flowers in space forms. (English summary) **2002f:51029**
Garber, David (*with* Tsaban, Boaz) A mechanical derivation of the area of the sphere.
Tsaban, Boaz *see* **Garber, David**

Items with secondary classifications in 51M25

Gregorac, Robert J. An extension of Harvey's formula. (English summary) **2002b:51013**
Nikonorova, Yu. V. An extremal problem in the Euclidean plane. (Russian. Russian summary) **2002e:52011**
Yiu, Paul Heronian triangles are lattice triangles. **2002f:51027**

51M30 Line geometries and their generalizations [see also 53A25]

Davtyan, A. N. Segment functions in $\mathbb{R}^3$ and measure generation. (Russian. English and Russian summaries) **2002g:51021**

Items with secondary classifications in 51M30

Doliwa, Adam Discrete asymptotic nets and W-congruences in Plücker line geometry. (English summary) **2002k:53016**
List, Klaus Harmonic mappings and hyperbolic Plücker transformations. (English summary) **2002g:51002**
Pottmann, Helmut (*with* Wallner, Johannes) ★ Computational line geometry. (English summary) **2002f:53001**
Wallner, Johannes *see* **Pottmann, Helmut, 2002f:53001**

51M35 Synthetic treatment of fundamental manifolds in projective geometries (Grassmannians, Veronesians and their generalizations) [see also 14M15]

Items with secondary classifications in 51M35

Naumowicz, Adam (*with* Prażmowski, Krzysztof) On Segre's product of partial line spaces and spaces of pencils. (English summary) **2002f:51003**
Prażmowski, Krzysztof *see* **Naumowicz, Adam, 2002f:51003**

51M99 None of the above, but in this section

Sibley, Tom The possibility of impossible pyramids. **2002c:51017**

Items with secondary classifications in 51M99

Bazzotti, Laura (*with* Dalzotto, Giorgio; Robbiano, Lorenzo) Remarks on geometric theorem proving. (English summary)
Bulmer, Michael Ross (*with* Fearnley-Sander, Desmond; Stokes, T. E.) The kinds of truth of geometry theorems. (English summary)
Dalzotto, Giorgio *see* **Bazzotti, Laura et al.**
Fearnley-Sander, Desmond *see* **Bulmer, Michael Ross et al.**
Fleuriot, Jacques D. Nonstandard geometric proofs. (English summary)
Li, Chen² *see* **Tulone, Daniela et al.**
Robbiano, Lorenzo *see* **Bazzotti, Laura et al.**
Stokes, T. E. *see* **Bulmer, Michael Ross et al.**
Tulone, Daniela (*with* Yap, Chee; Li, Chen²) Randomized zero testing of radical expressions and elementary geometry theorem proving. (English summary)
Yap, Chee *see* **Tulone, Daniela et al.**

51Nxx Analytic and descriptive geometry

51N05 Descriptive geometry [see also 65D17, 68U07]

Agüero Granados, M. A. *see* **Arriola, Rosario et al.**
Arriola, Rosario (*with* Ortega Riejos, Francisco A.; Agüero Granados, M. A.; Ortiz, Gema) Geometry in the design of the tiers in a Roman theater. (Spanish. Spanish summary)
Babić, Ivanka The torus and some of its applications in mechanical engineering. (Croatian. English and Croatian summaries)
Bier, Sabrina Equilateral triangles intercepted by oriented parallelians. (English summary)
Guo, Min Zhi (*with* Li, Tong Sheng) Determination of numbers of side faces for a regular prism made by giving a twist and joining the bases together. (Chinese. English and Chinese summaries)
Li, Tong Sheng *see* **Guo, Min Zhi**
Ortega Riejos, Francisco A. *see* **Arriola, Rosario et al.**
Ortiz, Gema *see* **Arriola, Rosario et al.**
Pokrovskaya, Marina V. Education with fascination: teaching descriptive geometry with applications. (*see* **2002f:00010**)
Sliepčević, Ana Eine Anwendung der perspektive Kollineation. (English and Croatian summaries) [An application of perspective collineation]

Items with secondary classifications in 51N05

d'Auriol, Brian (*with* Kreinovich, Vladik; George, Bindu; Muganda, Florence; Chikkapaiah, Pramod Kumar) What is the best way to draw a cube? (English summary)
Chikkapaiah, Pramod Kumar *see* **d'Auriol, Brian et al.**
George, Bindu *see* **d'Auriol, Brian et al.**
Kreinovich, Vladik *see* **d'Auriol, Brian et al.**
Muganda, Florence *see* **d'Auriol, Brian et al.**
Stachel, Hellmuth Flexible cross-polytopes in the Euclidean 4-space. (English summary) **2002b:52024**

51N10 Affine analytic geometry

Emelyanov, Lev A Feuerbach type theorem on six circles.
— Correction to: "A Feuerbach type theorem on six circles" [Forum Geom. **1** (2001), 173–175; 1 891 531].
Kimberling, Clark Cubics associated with triangles of equal areas. (English summary)
Schröder, Eberhard M. Bemerkungen zum Satz von Gergonne. [Remarks on Gergonne's theorem]

Items with secondary classifications in 51N10

Egorov, A. A. (*with* Korobkov, M. V.) On the stability of classes of affine mappings. (Russian. Russian summary) **2002j:30025**
Korobkov, M. V. *see* **Egorov, A. A., 2002j:30025**

51N15 Projective analytic geometry

Boratyński, Wojciech On generators of the group of projective collineations. (English summary) **2002c:51018**
Fokkink, Robbert J. Curves which intersect lines in finite sets. (English summary) **2002a:51023**

Items with secondary classifications in 51N15

Et-Taoui, Boumediene Equiangular lines in $\mathbf{C}^r$. (English summary) **2002a:51022**
Gfrerrer, Anton ★ On the construction of rational curves on hyperquadrics. **2002f:68174**
Lapaine, Miljenko A conic section pencil specified by two double points. (Croatian. English summary)

51N20 Euclidean analytic geometry

Bezdek, A. (*with* Fodor, Ferenc; Talata, I.) Sylvester-type theorems for unit circles. (English summary) **2002h:51013**
Čerin, Zvonko Triangles from the Feuerbach triangle. (English and Croatian summaries)
— On properties of rectangular hyperbolas. (English summary) **2002a:51024**
— A generalization of the butterfly theorem from circles to conics. (English summary)
Fodor, Ferenc *see* **Bezdek, A. et al., 2002h:51013**
Horwitz, Alan L. Finding an ellipse tangent to finitely many given lines. (English summary) **2002e:51012**
Lapaine, Miljenko A conic section pencil specified by two double points. (Croatian. English summary)
Ray, Asok Kumar[1] On angles between multiplanes in an Euclidean n-space E_n.
Talata, I. *see* **Bezdek, A. et al., 2002h:51013**

Items with secondary classifications in 51N20

Derôme, Mike Laws of reflection from two or more plane mirrors in succession. (English summary)
Farouki, Rida T. (*with* Moon, Hwan Pyo; Ravani, Bahram) Minkowski geometric algebra of complex sets. (English summary) **2002d:65025**
Filipan, Sanja (*with* Gorjanc, Sonja; Kvasnička, Hrvoje) Covering by a parabolic conoid. (Croatian. English and Croatian summaries) **2002i:68114**
Gorjanc, Sonja *see* **Filipan, Sanja et al., 2002i:68114**
Kvasnička, Hrvoje *see* **Filipan, Sanja et al., 2002i:68114**
Moon, Hwan Pyo *see* **Farouki, Rida T. et al., 2002d:65025**
Ravani, Bahram *see* **Farouki, Rida T. et al., 2002d:65025**
Risteski, Ice B. (*with* Trenčevski, Kostadin G.) Principal values and principal subspaces of two subspaces of vector spaces with inner product. (English summary) **2002a:15001**
Sapiro, Guillermo ★ Geometric partial differential equations and image analysis. (English summary) **2002a:68142**
Scharnhorst, K. Angles in complex vector spaces. (English summary) **2002j:51011**
Trenčevski, Kostadin G. *see* **Risteski, Ice B., 2002a:15001**

51N25 Analytic geometry with other transformation groups

Sabitov, I. Kh. Calculation of polyhedra. (Russian) **2002d:51013**
Sachs, Hans Neuere Resultate zur Geometrie des Flaggenraumes. [Recent results on the geometry of the flag space] **2002b:51017**

51N30 Geometry of classical groups [see also 20Gxx, 14L35]

Items with secondary classifications in 51N30

Benz, Walter de Sitter distances in Hilbert spaces. (English summary) **2002d:39044**

51N35 Questions of classical algebraic geometry [see also 14Nxx]

Items with secondary classifications in 51N35

Fischer, Gerd ★ Plane algebraic curves. (English summary) **2002g:14042**
(Kay, Leslie D.) *see* **Fischer, Gerd, 2002g:14042**
Pedreira, Manuel (*with* Solá-Conde, Luis-Eduardo) Classification of plane congruences in $P^4_{\mathbf{C}}$. I. (English summary) **2002f:14069**
Solá-Conde, Luis-Eduardo *see* **Pedreira, Manuel, 2002f:14069**

51N99 None of the above, but in this section

Banarer, Vladimir *see* **Bayro Corrochano, Eduardo, (2002d:00019)**
Bayro Corrochano, Eduardo (*with* Banarer, Vladimir) Projective reconstruction of shape and motion using invariant theory. (*see* **2002d:00019**)
Chu, Xiao Guang Using barycentric coordinates to prove inequalities related to triangles. (Chinese. English and Chinese summaries)

Items with secondary classifications in 51N99

Bayro Corrochano, Eduardo (*with* Lasenby, Joan) The geometry algebra of computer vision. **2002g:68145**
Lasenby, Joan *see* **Bayro Corrochano, Eduardo, 2002g:68145**
Li, Hongbo Vectorial equations solving for mechanical geometry theorem proving. (English summary) **2002f:03019**
Sobczyk, Garret Universal geometric algebra. **2002h:15038**

51P05 Geometry and physics (should also be assigned at least one other classification number from Sections 70–86)

Chen, Jing-Ling (*with* Ungar, Abraham A.) From the group SL(2, **C**) to gyrogroups and gyrovector spaces and hyperbolic geometry. (English summary) **2002i:51015**
Derôme, Mike Laws of reflection from two or more plane mirrors in succession. (English summary)
Kutsenko, G. V. (*with* P'yatets'kiĭ, V. O.) On the theory of slide vectors. (Ukrainian. English and Ukrainian summaries)
P'yatets'kiĭ, V. O. *see* **Kutsenko, G. V.**
Saniga, Metod Quadro-quartic Cremona transformations and four-dimensional pencil-space-times with the reverse signature. (English summary) **2002k:51017**
— On "spatially anisotropic" pencil-space-times associated with a quadro-cubic Cremona transformation. (English summary) **2002k:51018**
Ungar, Abraham A. *see* **Chen, Jing-Ling, 2002i:51015**

Items with secondary classifications in 51P05

Capria, M. Mamone On the conventionality of simultaneity in special relativity. (English summary) **2002f:83003**
Wickramasekara, S. A note on the topology of space-time in special relativity. (English summary) **2002k:83005**

52–XX Convex and discrete geometry

52–01 Instructional exposition (textbooks, tutorial papers, etc.)

Items with secondary classifications in 52–01

Berger, Marcel Peut-on définir la géométrie aujourd'hui? [Can one define geometry today?] **2002g:00001**
Johnson, David Lawrence ★ Symmetries. (English summary) **2002m:20001**
Montroll, John ★ A plethora of polyhedra in origami. (English summary) **2002m:00004**

52–02 Research exposition (monographs, survey articles)

Items with secondary classifications in 52–02

(Hilton, Peter) *see* **Walser, Hans, 2002h:00005**
(Pedersen, Jean) *see* **Walser, Hans, 2002h:00005**
Walser, Hans ★ The golden section. (English summary) **2002h:00005**
Ziegler, Günter M. Questions about polytopes. (*see* **2002d:00004a**)

52–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 52–03

Hitotumatu, Sin A short history of regular star polytopes. (Japanese) (*see* **2002b:01003**)

52–06 Proceedings, conferences, collections, etc.

(Bremner, D.) *see* **Conference: Computational Geometry**
(De Loera, Jesús A.) *see* **Geometric combinatorics**
(Sottile, Frank) *see* **Geometric combinatorics**
(Sturmfels, Bernd) *see* **Geometric combinatorics**

Items listed otherwise than by author

Conference:
  Computational Geometry ★ 12th Annual Canadian Conference on Computational Geometry.
Davis, CA ★ Geometric combinatorics.
Fredericton, NB ★ 12th Annual Canadian Conference on Computational Geometry.
Geometric combinatorics ★ Geometric combinatorics.
San Francisco, CA ★ Geometric combinatorics.
Session:
  Algebraic and Geometric Combinatorics ★ Geometric combinatorics.

Items with secondary classifications in 52–06

(Cohen, Daniel C.) *see* **Arrangements in Boston: a Conference on Hyperplane Arrangements, 2002h:00013**
(Cordovil, Raul) *see* **Combinatorial geometries**
(Gorini, Catherine A.) *see* **Geometry at work, 2002f:00010**
(Las Vergnas, Michel) *see* **Combinatorial geometries**
(Lindström, Bernt) *see* **Selected papers in honor of Helge Tverberg**
(Milman, Vitali D.) *see* **Geometric aspects of functional analysis, 2002b:46003**
(Rogers, D. G.) *see* **Selected papers in honor of Helge Tverberg**
(Schechtman, Gideon) *see* **Geometric aspects of functional analysis, 2002b:46003**
(Suciu, Alexander I.) *see* **Arrangements in Boston: a Conference on Hyperplane Arrangements, 2002h:00013**
(Tverberg, Helge) *see* **Selected papers in honor of Helge Tverberg**
(Zaks, Joseph) *see* **Selected papers in honor of Helge Tverberg**

Items listed otherwise than by author

Arrangements in Boston: a Conference on Hyperplane Arrangements ★ Arrangements in Boston: a Conference on Hyperplane Arrangements. **2002h:00013**
Boston, MA ★ Arrangements in Boston: a Conference on Hyperplane Arrangements. **2002h:00013**
Combinatorial geometries ★ Combinatorial geometries.
Conference:
  Hyperplane Arrangements ★ Arrangements in Boston: a Conference on Hyperplane Arrangements. **2002h:00013**
Festschrift:
  Tverberg, Helge ★ Selected papers in honor of Helge Tverberg.
Geometric aspects of functional analysis ★ Geometric aspects of functional analysis. **2002b:46003**
Geometry at work ★ Geometry at work. **2002f:00010**
Lecture Notes in Mathematics ★ Geometric aspects of functional analysis. **2002b:46003**
Luminy ★ Combinatorial geometries.
Meeting:
  Combinatorial Geometries: Oriented Matroids, Matroids, and Applications ★ Combinatorial geometries.
Selected papers in honor of Helge Tverberg ★ Selected papers in honor of Helge Tverberg.
Seminar:
  Geometric Aspects of Functional Analysis ★ Geometric aspects of functional analysis. **2002b:46003**

52Axx General convexity

52A01 Axiomatic and generalized convexity

Kubiś, Wiesław A characterization of complete Boolean algebras. (English summary) **2002b:52001**
Metel'skiĭ, N. N. (*with* Naĭdenko, V. G.) Algorithmic aspects of partial convexity. (Russian. Russian summary) **2002c:52001**
Naĭdenko, V. G. *see* **Metel'skiĭ, N. N., 2002c:52001**
Pambuccian, Victor A methodologically pure proof of a convex geometry problem. (English summary) **2002g:52001**
Röhrl, Helmut Convexity theories. VII. Discrete Γ-convex modules. (English summary) **2002d:52001**

Items with secondary classifications in 52A01

Dupin, Jean-Claude *see* **Hansen, Guillermo L., 2002b:49033**
Hansen, Guillermo L. (*with* Dupin, Jean-Claude) Generalized convexity for unbounded sets: the enlarged space. (English summary) **2002b:49033**
Kubiś, Wiesław (*with* Kucharski, Andrzej Henryk) Convexity structures in zero-dimensional compact spaces. (English summary) **2002g:54012**
Kucharski, Andrzej Henryk *see* **Kubiś, Wiesław, 2002g:54012**
Mirkin, Boris G. (*with* Muchnik, I.) Induced layered clusters, hereditary mappings, and convex geometries. (English summary) **2002m:05050**
Mongin, Philippe A note on mixture sets in decision theory. **2002b:91030**
Muchnik, I. *see* **Mirkin, Boris G., 2002m:05050**
Nguyen Ngoc Hai Some conditions for nonemptiness of γ-subdifferentials of γ-convex functions. (English summary) **2002k:49038**
Popa, Dorian Semicontinuity of a class of generalized convex and a class of generalized concave set-valued maps. (English summary) **2002d:54009**
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systems of planar convex figures. (Russian) **2002k:52002**
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52A15 Convex sets in 3 dimensions (including convex surfaces) [see also 53A05, 53C45]

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Wallner, Johannes Self-intersections and smoothness of general offset surfaces. (English summary) **2002e:53005**

52A20 Convex sets in n dimensions (including convex hypersurfaces) [see also 53A07, 53C45]

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Barker, Jonathan Aldus (*with* Larman, D. G.) Determination of convex bodies by certain sets of sectional volumes. (English summary) **2002j:52001**
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52A22 Random convex sets and integral geometry [see also 53C65, 60D05]

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52B12 Special polytopes (linear programming, centrally symmetric, etc.)

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52B15 Symmetry properties of polytopes

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52B20 Lattice polytopes (including relations with commutative algebra and algebraic geometry) [see also 06A11, 13F20, 13Hxx]

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Duval, Art M. (*with* Rose, Lauren L.) Iterated homology of simplicial complexes. (English summary) **2002j:52009**
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Gao, Shu Hong Absolute irreducibility of polynomials via Newton polytopes. (English summary) **2002f:52013**
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— (*with* Gubeladze, Joseph) Polytopal linear retractions. (English summary) **2002h:14086**
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Yau, Stephen S. T. *see* **Lin, Ke-Pao, 2002b:11135**

52B22 Shellability

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Hetyei, Gábor *see* **Ehrenborg, Richard, 2002h:06004**
Kononenko, P. G. *see* **Baranovskiĭ, E. P., 2002m:52016**
Reiner, Victor *see* **Athanasiadis, Christos A. et al., 2002a:52011**
Rose, Lauren L. *see* **Duval, Art M., 2002j:52009**

52B35 Gale and other diagrams

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Bisztriczky, T. (*with* Böröczky, Károly, Jr.) On periodically-cyclic Gale 4-polytopes. (English summary) **2002h:52016**
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52B40 Matroids (realizations in the context of convex polytopes, convexity in combinatorial structures, etc.) [see also 05B35, 52Cxx]

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— (*with* Llewellyn, Donna C.; Vande Vate, John H.) Two-lattice polyhedra: duality and extreme points. (English summary) **2002f:52015**
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Vande Vate, John H. *see* **Chang, Shiow-yun et al., 2002f:52014** *and* **2002f:52015**
Wahl, Nathalie Antimatroids of finite character. (English summary) **2002k:52014**

Items with secondary classifications in 52B40

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— *see also* **Booth, Richard F. et al., 2002h:05037**
Bretto, Alain (*with* Li Marzi, Enzo Maria) Mathematical morphology and poset geometry. (English summary) **2002k:06008**
Cordovil, Raul (*with* Etienne, Gwihen) A note on the Orlik-Solomon algebra. (English summary) **2002a:05060**
Edelman, Paul H. (*with* Reiner, Victor; Welker, Volkmar) Convex, acyclic, and free sets of an oriented matroid. (English summary) **2002m:52027**
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Las Vergnas, Michel *see* **Forge, David et al., 2002f:52010**
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Murota, Kazuo (*with* Shioura, Akiyoshi) Extension of M-convexity and L-convexity to polyhedral convex functions. (English summary) **2002b:90061**
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Stojanović, Milica Triangulation of convex polyhedra by small number of tetrahedra. (*see* **2002g:00020**)
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White, Neil *see* **Borovik, Alexandre V. et al., 2002g:05050** *and* **Booth, Richard F. et al., 2002h:05037**

52B45 Dissections and valuations (Hilbert's third problem, etc.)

Alesker, S. Description of translation invariant valuations on convex sets with solution of P. McMullen's conjecture. (English summary) **2002e:52015**
Byrnes, Graham (*with* Cairns, Grant; Jessup, Barry) Leftovers from the ham sandwich theorem. **2002e:52016**
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De Loera, Jesús A. (*with* Santos, Francisco; Takeuchi, Fumihiko) Extremal properties for dissections of convex 3-polytopes. (English summary) **2002g:52014**
Dougherty, Randall Solutions to congruences using sets with the property of Baire. (English summary) **2002i:52007**
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Dupont, Johan L. ★ Scissors congruences, group homology and characteristic classes. (English summary) **2002g:52013**
Hilton, Peter (*with* Pedersen, Jean) Symmetry in theory—mathematics and aesthetics.
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Panina, G. Yu. The structure of the group of virtual polytopes with respect to the subgroups of cylinders. (Russian. Russian summary) **2002k:52015**
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Sukiasyan, G. S. A hierarchy of simple valuations in $\mathbb{R}^3$. (Russian. English and Russian summaries) **2002g:52015**
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Hertel, Eike Zwei Kennzeichnungen der Hillschen Tetraeder. (English summary) [Two characterizations of Hill tetrahedra] **2002m:52011**
Klain, Daniel A. Free polygon enumeration and the area of an integral polygon. (English summary) **2002a:52013**

52B55 Computational aspects related to convexity {For computational geometry and algorithms, see 68Q25, 68U05; for numerical algorithms, see 65Yxx.} [see also 68Uxx]

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— (*with* Flato, Eyal; Halperin, Dan) Polygon decomposition for efficient construction of Minkowski sums. (English summary) **2002k:52016**
Agathos, Alexander *see* **Hormann, Kai, 2002h:52019**
Amenta, Nina (*with* Kolluri, Ravi Krishna) The medial axis of a union of balls. (English summary) **2002g:52016**
Aranson, Alexander B. Computation and applications of the Newton polyhedrons. (English summary) **2002h:52017**
Aronov, B. *see* **Agarwal, Pankaj K. et al., 2002i:52009**
d'Auriol, Brian (*with* Kreinovich, Vladik; George, Bindu; Muganda, Florence; Chikkapaiah, Pramod Kumar) What is the best way to draw a cube? (English summary)
Bespamyatnikh, Sergei An efficient algorithm for the three-dimensional diameter problem. (English summary) **2002e:52017**
Biedl, Therese C. (*with* Demaine, Erik D.; Demaine, Martin L.; et al.) Locked and unlocked polygonal chains in three dimensions. (English summary) **2002h:52018**
Chan, Timothy M. On enumerating and selecting distances. (English summary) **2002c:52018**
Cheng, Ho-Lun (*with* Dey, Tamal K.; Edelsbrunner, Herbert; Sullivan, John M.) Dynamic skin triangulation. (English summary) **2002e:52018**
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Christof, Thomas (*with* Reinelt, Gerhard) Decomposition and parallelization techniques for enumerating the facets of combinatorial polytopes. (English summary) **2002g:52017**
Chwa, Kyung-Yong *see* **Lee, Jae-Ha et al., 2002a:52015**
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Cocan, Roxana (*with* O'Rourke, Joseph) Polygonal chains cannot lock in 4D. (English summary) **2002i:52010**
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Edelsbrunner, Herbert *see* **Cheng, Ho-Lun et al., 2002e:52018**
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Hachimori, Masahiro Deciding constructibility of 3-balls with at most two interior vertices. (English summary) **2002k:52017**
Halperin, Dan *see* **Agarwal, Pankaj K. et al., 2002k:52016**
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Lee, Jae-Ha (*with* Park, Sang-Min; Chwa, Kyung-Yong) Searching a polygonal room with one door by a 1-searcher. (English summary) **2002a:52015**
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Mitchell, Joseph S. B. (*with* O'Rourke, Joseph) Computational geometry column 42. (English summary) **2002h:52020**
Muganda, Florence *see* **d'Auriol, Brian et al.**
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52B60 Isoperimetric problems for polytopes

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52Cxx Discrete geometry

52C05 Lattices and convex bodies in 2 dimensions [see also 11H06, 11H31, 11P21]

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52C07 Lattices and convex bodies in n dimensions [see also 11H06, 11H31, 11P21]

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Yang, Shi Guo A problem for embedding elementary figurates in spherical spaces. (Chinese. English and Chinese summaries)

52C10 Erdős problems and related topics of discrete geometry [see also 11Hxx]

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— (*with* Kojdjaková, Zuzana) Answer to one of Fishburn's questions: "Isosceles planar subsets" [Discrete Comput. Geom. **19** (1998), no. 3, 391–398; MR 98k:52039] by P. Fishburn. **2002j:52014**
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Bezdek, Károly (*with* Blekherman, Grigoriy; Connelly, Robert; Csikós, Balázs) The polyhedral Tammes problem. (English summary) **2002e:52021**
Blekherman, Grigoriy *see* **Bezdek, Károly et al., 2002e:52021**
Braß, Peter (*with* Rote, Günter; Swanepoel, Konrad J.) Triangles of extremal area or perimeter in a finite planar point set. (English summary) **2002b:52018**
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— (*with* Pach, János; Tóth, Géza) A modular version of the Erdős-Szekeres theorem. (English summary) **2002k:52021**
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52C15 Packing and covering in 2 dimensions [see also 05B40, 11H31]

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Florian, August Some recent results on packing and covering with incongruent circles. (English summary) **2002e:52022**
— An infinite set of solid packings on the sphere. (English summary) **2002k:52024**
— Packing of incongruent circles on the sphere. (English summary) **2002h:52025**
Fodor, Ferenc New developments in packing equal circles in a circle. (*see* **2002k:00037**)
Fowler, Patrick W. (*with* Tarnai, T.) Transition from circle packing to covering on a sphere: the odd case of 13 circles. (English summary) **2002i:52013**
Gáspár, Zs. *see* **Tarnai, T., 2002j:52017**
Harborth, Heiko (*with* Möller, Meinhard) Vertex-to-vertex packings of congruent triangles.
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Januszewski, Janusz Packing similar rectangles in a rectangle.
Kemnitz, Arnfried (*with* Szabó, László[2]) Relative Newton numbers of regular polygons with equal side lengths. (English summary) **2002j:52015**
Meyer, Martin (*with* Schnell, Uwe) On finite lattice coverings. (English summary) **2002k:52025**
Möller, Meinhard *see* **Harborth, Heiko**
Schnell, Uwe *see* **Meyer, Martin, 2002k:52025**
Sugimoto, Teruhisa (*with* Tanemura, Masaharu) Random sequential covering of a sphere with identical spherical caps. (English summary) **2002j:52016**
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Tarnai, T. (*with* Gáspár, Zs.) Packing of equal regular pentagons on a sphere. (English summary) **2002j:52017**
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Xu, Chang Qin *see* **Yuan, Li Ping**
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Zhao, Li Kuan The kissing number of a regular pentagon. (Chinese. English and Chinese summaries) **2002c:52023**
Zong, Chuanming Simultaneous packing and covering in the Euclidean plane. (English summary) **2002m:52020**

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Januszewski, Janusz (*with* Lassak, Marek) Covering a convex body by its negative homothetic copies. (English summary) **2002a:52019**
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Martynchik, V. N. Optimal placements of polygons. (Russian. English and Russian summaries) **2002m:68114**
Repp, A. Bounded valence excess and the parabolicity of tilings. (English summary) **2002h:52032**
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52C17 Packing and covering in n dimensions [see also 05B40, 11H31]

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Forcade, R. (*with* Lamoreaux, J.) Diameter series of lattice covering simplices. (English summary) **2002i:52014**
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Heppes, A. On the density of 2-saturated lattice packings of discs. (English summary) **2002k:52026**
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Lagarias, Jeffrey C. Bounds for local density of sphere packings and the Kepler conjecture. (English summary) **2002k:52027**
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Martini, Horst (*with* Wenzel, Walter) Covering and packing problems in lattices associated with the n-cube. (English summary) **2002k:52029**
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Schürmann, Achill Dense ellipsoid packings. (English summary) **2002m:52021**
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Bognár Máthé, Katalin Über ein halbreguläres Polyeder. (English summary) [On a semiregular polyhedron] **2002j:52006**
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Cornuéjols, Gérard ★ Combinatorial optimization. (English summary) **2002e:90004**
Csikós, Balázs On the volume of flowers in space forms. (English summary) **2002f:51029**
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Rams, Michał Generalized Whitney partitions. (English summary) **2002c:05049**
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Stojanović, Milica Triangulation of convex polyhedra by small number of tetrahedra. (*see* **2002g:00020**)
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52C20 Tilings in 2 dimensions [see also 05B45, 51M20]

Agarwal, Pankaj K. (*with* Basch, Julien; Guibas, Leonidas J.; Hershberger, John; Zhang, Li) Deformable free space tilings for kinetic collision detection. (English summary) (*see* **2002a:68003**)
Bandt, Christoph (*with* Wang, Yang[3]) Disk-like self-affine tiles in $\mathbb{R}^2$. (English summary) **2002h:52028**
Basch, Julien *see* **Agarwal, Pankaj K. et al., (2002a:68003)**
Bochiş, D. (*with* Santos, Francisco) On the number of facets of three-dimensional Dirichlet stereohedra. I. Groups with reflections. (English summary) **2002b:52021**
Dolbilin, N. Self-similar mosaics.
Fried, Katalin (*with* Jakucs, Erika; Szeredi, Éva) A proof of Escher's (only?) theorem.
Friedman, Erich (*with* van der Zwaag, Berend Jan) Constant neighbor dihedral tilings with 15, 32, and 43 neighbors. (English summary)
Guibas, Leonidas J. *see* **Agarwal, Pankaj K. et al., (2002a:68003)**
Hales, T. C. The honeycomb conjecture. (English summary) **2002a:52020**
Hershberger, John *see* **Agarwal, Pankaj K. et al., (2002a:68003)**
Jakucs, Erika *see* **Fried, Katalin et al.**
Kenyon, Richard W. Conformal invariance of domino tiling. (English summary) **2002e:52022**
Mann, Casey A tile with surround number 2.

Moore, Cristopher (*with* Robson, John M.) Hard tiling problems with simple tiles. (English summary) **2002h:52029**
Radenne, Gilles Tilings of a domain on a hexagon mesh with balanced 3-tiles. (English summary) **2002m:52022**
Rigby, John F. Perfect precise colourings of triangular tilings, and hyperbolic patchwork. (English summary)
Robson, John M. *see* **Moore, Cristopher, 2002h:52029**
Sadahiro, Taizo Coloring solitaire tilings. (English summary) **2002b:52022**
Santos, Francisco *see* **Bochiş, D., 2002b:52021**
Szeredi, Éva *see* **Fried, Katalin et al.**
Vince, Andrew Digit tiling of Euclidean space. (English summary) **2002g:52025**
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Webb, John The Euler tiling formula. (English summary)
Zhang, Li *see* **Agarwal, Pankaj K. et al., (2002a:68003)**
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Berman, Piotr (*with* Dasgupta, Bhaskar[1]; Muthukrishnan, S.; Ramaswami, Suneeta) Efficient approximation algorithms for tiling and packing problems with rectangles. (English summary) **2002h:68244**
Calegari, Danny Napoleon in isolation. (English summary) **2002e:57023**
Cannon, J. W. (*with* Floyd, W. J.; Parry, W. R.) Finite subdivision rules. (English summary) **2002j:52021**
Ciucu, M. (*with* Eisenkölbl, Theresia; Krattenthaler, C.; Zare, Douglas) Enumeration of lozenge tilings of hexagons with a central triangular hole. (English summary) **2002j:05009**
Cohn, Henry (*with* Kenyon, Richard W.; Propp, James) A variational principle for domino tilings. **2002k:82038**
Dasgupta, Bhaskar[1] *see* **Berman, Piotr et al., 2002h:68244**
Eisenkölbl, Theresia *see* **Ciucu, M. et al., 2002j:05009**
Florian, August Archimedean tilings, and solid and non-solid sets of circles. (English summary) **2002e:52026**
— An infinite set of solid packings on the sphere. (English summary) **2002k:52024**
— Packing of incongruent circles on the sphere. (English summary) **2002h:52025**
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Fulmek, Markus (*with* Krattenthaler, C.) The number of rhombus tilings of a symmetric hexagon which contain a fixed rhombus on the symmetry axis. II. (English summary) **2002e:05039**
Isokawa, Yukinao Some mean characteristics of Poisson-Voronoi and Poisson-Delaunay tessellations in hyperbolic planes. **2002d:60007**
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Kisisel, Ali Ulas Ozgur Polyomino convolutions and tiling problems. (English summary) **2002e:05040**
Krajčevski, Milé Tilings of the plane, hyperbolic groups and small cancellation conditions. (English summary) **2002h:20060**
Kranjc, Marko Symmetries of periodic patterns in the plane. (Slovenian. English and Slovenian summaries) **2002e:20102**
Krattenthaler, C. *see* **Fulmek, Markus, 2002e:05039** *and* **Ciucu, M. et al., 2002j:05009**
Margenstern, Maurice (*with* Morita, Kenichi) NP problems are tractable in the space of cellular automata in the hyperbolic plane. (English summary) **2002e:68098**
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Muthukrishnan, S. *see* **Berman, Piotr et al., 2002h:68244**
Nakamoto, Atsuhiro *see* **Ando, Kiyoshi, 2002j:05043**
Parry, W. R. *see* **Cannon, J. W. et al., 2002j:52021**
Perstein, Ellen Tiling with Penrose rhomb cluster. (English summary) **2002c:52029**
Propp, James *see* **Cohn, Henry et al., 2002k:82038**
Radin, Charles Statistical symmetry. (*see* **2002f:00010**)
Ramaswami, Suneeta *see* **Berman, Piotr et al., 2002h:68244**
Rémila, Eric On functions which are limits of domino tilings. (English summary) **2002c:05050**
Repp, A. Bounded valence excess and the parabolicity of tilings. (English summary) **2002h:52032**
Wichmann, Brian ★ The world of patterns.
Zare, Douglas *see* **Ciucu, M. et al., 2002j:05009**
Zhuravlev, V. G. Self-similar growth of periodic tilings and graphs. (Russian. Russian summary) **2002d:20080**

52C22 Tilings in n dimensions [see also 05B45, 51M20]

Bölcskei, Attila Filling space with cubes of two sizes. (English summary) **2002i:52015**
Chan, H. S. Y. *see* **Chung, K. W. et al., 2002e:52023**
Chung, K. W. (*with* Chan, H. S. Y.; Wang, Bennan) Tessellations in three-dimensional hyperbolic space from dynamics and the quaternions. (English summary) **2002e:52023**
Delgado Friedrichs, Olaf Recognition of flat orbifolds and the classification of tilings in $\mathbb{R}^3$. (English summary) **2002g:52026**
Gravier, Sylvain (*with* Mollard, Michel; Payan, Charles) On the nonexistence of three-dimensional tiling in the Lee metric. II. (English summary) **2002b:52023**
Kolountzakis, Mihail N. (*with* Wolff, Thomas) On the Steinhaus tiling problem. (English summary) **2002c:52024**
Mollard, Michel *see* **Gravier, Sylvain et al., 2002b:52023**
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Pedersen, Steen (*with* Wang, Yang[3]) Universal spectra, universal tiling sets and the spectral set conjecture. (English summary) **2002k:52030**
Peixoto, Mauricio M. *see* **Veerman, J. J. P. et al., 2002a:52021**
Rocha, André C. *see* **Veerman, J. J. P. et al., 2002a:52021**
Sutherland, Scott *see* **Veerman, J. J. P. et al., 2002a:52021**
Veerman, J. J. P. (*with* Peixoto, Mauricio M.; Rocha, André C.; Sutherland, Scott) On Brillouin zones. (English summary) **2002a:52021**
Wang, Bennan *see* **Chung, K. W. et al., 2002e:52023**
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Wills, Jörg M. Finite packings and parametric density. (English summary) (*see* **2002m:82001**)
Wolff, Thomas *see* **Kolountzakis, Mihail N., 2002c:52024**
Wood, G. R. Four dimensional honeycomb.

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Aragon, G. (*with* Aragon, J. L.; Davila, F.; Gómez-Rodríguez, A.; Rodriguez, Marco A.) Modern geometric calculations in crystallography. (*see* **2002d:00019**)
Aragon, J. L. *see* **Aragon, G. et al., (2002d:00019)**
Bochiş, D. (*with* Santos, Francisco) On the number of facets of three-dimensional Dirichlet stereohedra. I. Groups with reflections. (English summary) **2002b:52021**
Caprara, Alberto (*with* Toth, Paolo) Lower bounds and algorithms for the 2-dimensional vector packing problem. (English summary) **2002f:90169**
Damanik, David (*with* Lenz, D.) Linear repetitivity. I. Uniform subadditive ergodic theorems and applications. (English summary) **2002g:37018**
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Gjini, Nertila A self-similar tiling generated by the Pisot number which is the root of the equation $x^3 - x^2 - 1 = 0$. **2002b:11149**
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Kırat, İbrahim On the Lebesgue measure of self-affine sets. (English summary) **2002h:28012**
Latapy, Matthieu Generalized integer partitions, tilings of zonotopes and lattices. (English summary) **2002b:05035**
Lenz, D. *see* **Damanik, David, 2002g:37018**
Moore, Cristopher (*with* Robson, John M.) Hard tiling problems with simple tiles. (English summary) **2002h:52029**
Robson, John M. *see* **Moore, Cristopher, 2002h:52029**
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Saha, Punam K. (*with* Rosenfeld, Azriel) Local and global topology preservation in locally finite sets of tiles. (English summary) **2002h:68226**
Santos, Francisco *see* **Bochiş, D., 2002b:52021**
Toth, Paolo *see* **Caprara, Alberto, 2002f:90169**

52C23 Quasicrystals, aperiodic tilings

Baake, Michael (*with* Moody, Robert V.) Self-similar measures for quasicrystals. (English summary) **2002m:52023**
— (*with* Moody, Robert V.; Pleasants, Peter A. B.) Diffraction from visible lattice points and kth power free integers. (English summary) **2002c:52025**
Cáceres, J. (*with* Ledesma, F.; Márquez, Alberto; Moreno-González, A.) Recent results on Penrose tilings. (Spanish. Spanish summary)
Cotfas, Nicolae Penrose-type patterns obtained by projection from a 12-dimensional lattice. (English summary) **2002m:52024**
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53–03 Historical (must also be assigned at least one classification number from Section 01)

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(Azevedo Breda, Ana M. R.) *see* **School: Differential Geometry**, **2002d:53007**
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53Axx Classical differential geometry

53A04 Curves in Euclidean space

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53A20 Projective differential geometry

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53A45 Vector and tensor analysis

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53A55 Differential invariants (local theory), geometric objects

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53Bxx Local differential geometry

53B05 Linear and affine connections

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53D15 Almost contact and almost symplectic manifolds

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53D99 None of the above, but in this section

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53Z05 Applications to physics

54–XX General topology {For the topology of manifolds of all dimensions, see 57Nxx.}

54–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

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54–01 Instructional exposition (textbooks, tutorial papers, etc.)

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54–02 Research exposition (monographs, survey articles)

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54–06 Proceedings, conferences, collections, etc.

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54Axx Generalities

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54A10 Several topologies on one set (change of topology, comparison of topologies, lattices of topologies)

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54A20 Convergence in general topology (sequences, filters, limits, convergence spaces, etc.)

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54A25 Cardinality properties (cardinal functions and inequalities, discrete subsets) [see also 03Exx] {For ultrafilters, see 54D80.}

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54A35 Consistency and independence results [see also 03E35]

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54Bxx Basic constructions

54B05 Subspaces

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54B99 None of the above, but in this section

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54C70 Entropy

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54Dxx Fairly general properties

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54D05 Connected and locally connected spaces (general aspects)

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54D10 Lower separation axioms (T_0–T_3, etc.)

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54D15 Higher separation axioms (completely regular, normal, perfectly or collectionwise normal, etc.)

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54D20 Noncompact covering properties (paracompact, Lindelöf, etc.)

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Al-Nashef, Bassam Countably I-compact spaces. (English summary) **2002h:54020**
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Ge, Ying Remarks on two examples of weak $\overline{\theta}$-refinable spaces. (English summary) **2002g:54029**
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54D25 "P-minimal" and "P-closed" spaces

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54D30 Compactness

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54D45 Local compactness, σ-compactness

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54D60 Realcompactness and realcompactification

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54D65 Separability

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54D70 Base properties

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54D99 None of the above, but in this section

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Lee, Bu Young *see* **Park, Jin Han et al., 2002j:54013**
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54Exx Spaces with richer structures

54E05 Proximity structures and generalizations

Leseberg, Dieter A new concept of nearness. (English summary) **2002f:54019**
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54E15 Uniform structures and generalizations

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54E17 Nearness spaces

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54E52 Baire category, Baire spaces

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54H25 Fixed-point and coincidence theorems [see also 47H10, 55M20]

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55P05 Homotopy extension properties, cofibrations

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55P15 Classification of homotopy type

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55P25 Spanier-Whitehead duality

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Baues, Hans Joachim (*with* Drozd, Yu. A.) Classification of stable homotopy types with torsion-free homology. (English summary) **2002i:55003**
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55P30 Eckmann-Hilton duality

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55P35 Loop spaces

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Kuhn, Nicholas J. Stable splittings and the diagonal. (English summary) **2002f:55021**
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— *see also* **Bödigheimer, Carl-Friedrich et al., 2002f:55036**
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55P40 Suspensions

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Mukai, Juno Suspension order of the suspended real 6-projective space. **2002f:55025**
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Levi, Ran (*with* Priddy, Stewart) On certain homotopy actions of general linear groups on iterated products. (English and French summaries) **2002k:55022**
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Stanley, Donald Exponents and suspension. (English summary) **2002m:55018**

55P42 Stable homotopy theory, spectra

Baker, Andrew J. (*with* Lazarev, A. Yu.) On the Adams spectral sequence for R-modules. (English summary) **2002a:55011**
Fausk, H. (*with* Lewis, L. G., Jr.; May, J. Peter) The Picard group of equivariant stable homotopy theory. (English summary) **2002k:55017**
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Kuhn, Nicholas J. Stable splittings and the diagonal. (English summary) **2002f:55021**
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55P43 Spectra with additional structure (E_∞, A_∞, ring spectra, etc.)

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55P45 H-spaces and duals

Baues, Hans Joachim Torsion bounds of loop spaces and suspensions. (English summary) **2002i:55005**
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55P65 Homotopy functors

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55Qxx Homotopy groups

55Q05 Homotopy groups, general; sets of homotopy classes

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55Q07 Shape groups

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55Q10 Stable homotopy groups

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55Q15 Whitehead products and generalizations

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55Q25 Hopf invariants

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55Q35 Operations in homotopy groups

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55Q40 Homotopy groups of spheres

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Mukai, Juno Suspension order of the suspended real 6-projective space. **2002f:55025**
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55Q45 Stable homotopy of spheres

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55Q50 J-morphism [see also 19L20]

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55Q51 v_n-periodicity

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55Q52 Homotopy groups of special spaces

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55Q55 Cohomotopy groups

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55Q91 Equivariant homotopy groups [see also 19L47]

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55Q99 None of the above, but in this section

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55Rxx Fiber spaces and bundles [see also 18F15, 32Lxx, 46M20, 57R20, 57R22, 57R25]

55R05 Fiber spaces

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55R12 Transfer

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55R15 Classification

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55R25 Sphere bundles and vector bundles

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55R35 Classifying spaces of groups and H-spaces

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55R37 Maps between classifying spaces

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55R40 Homology of classifying spaces, characteristic classes [see also 57Txx, 57R20]

Akita, Toshiyuki Homological infiniteness of decorated Torelli groups and Torelli spaces. (English summary) **2002c:55023**
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55R45 Homology and homotopy of BO and $B\mathrm{U}$; Bott periodicity

Behrens, Mark J. A new proof of the Bott periodicity theorem. (English summary) **2002m:55019**
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55R50 Stable classes of vector space bundles, K-theory [see also 19Lxx] {For algebraic K-theory, see 18F25, 19–XX.}

Kobayashi, Teiichi (*with* Maki, Haruo; Yoshida, Toshio[2]) Extendibility and stable extendibility of the power of the normal bundle associated to an immersion of the lens space mod 4. (English summary) **2002d:55020**
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Suter, Ueli *see* **Matthey, Michel, 2002j:19002**

55R65 Generalizations of fiber spaces and bundles

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Kapustin, Anton D-branes in a topologically nontrivial B-field. (English summary) **2002f:81095**
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55R70 Fibrewise topology

Sakai, Michihiro A proof of the homotopy push-out and pull-back lemma. (English summary) **2002c:55024**
Tulesher, S. M. Spaces of immersions of elementary fiber bundles. (Russian. English and Russian summaries) **2002g:55025**

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Han, Sang-Eon A generalization of the nilpotent space and its application. (English summary) **2002i:55009**
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55Uxx Applied homological algebra and category theory [see also 18Gxx]

55U05 Abstract complexes

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55U10 Simplicial sets and complexes

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55U20 Universal coefficient theorems, Bockstein operator

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55U35 Abstract and axiomatic homotopy theory

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Shipley, Brooke E. *see* **Rezk, Charles et al., 2002d:55025**

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Dupont, Nicolas (*with* Hess, Kathryn) Hochschild cohomology is topological. (English summary) **2002g:13026**
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55U40 Topological categories, foundations of homotopy theory

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Słomińska, Jolanta Homotopy decompositions of orbit spaces and the Webb conjecture. (English summary) **2002f:55033**

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González-Díaz, Rocío *see* **Álvarez Solano, Víctor et al.**
Jiménez, M. J. *see* **Álvarez Solano, Víctor et al.**
Real, Pedro *see* **Álvarez Solano, Víctor et al.**
Silva, Beatriz *see* **Álvarez Solano, Víctor et al.**
Tillmann, Ulrike Combinatorics of the surface category and TQFTs. **2002m:57040**

57–XX Manifolds and cell complexes {For complex manifolds, see 32Qxx.}

57–01 Instructional exposition (textbooks, tutorial papers, etc.)

Boltyanskiĭ, Vladimir Grigor'evich (*with* Efremovich, V. A.) ★ Intuitive combinatorial topology. (English summary) **2002g:57001**
Efremovich, V. A. *see* **Boltyanskiĭ, Vladimir Grigor'evich, 2002g:57001**
Flegg, H. Graham ★ From geometry to topology. (English summary)
(Novikov, Sergei Petrovich) *see* **Boltyanskiĭ, Vladimir Grigor'evich, 2002g:57001**
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Berger, Marcel Peut-on définir la géométrie aujourd'hui? [Can one define geometry today?] **2002g:00001**
Conlon, Lawrence ★ Differentiable manifolds. (English summary) **2002b:58001**
Davis, James Frederic (*with* Kirk, Paul A.) ★ Lecture notes in algebraic topology. (English summary) **2002f:55001**
(Hudson, Kiki) *see* **Matsumoto, Yukio, 2002m:57043**
Kirk, Paul A. *see* **Davis, James Frederic, 2002f:55001**
Matsumoto, Yukio ★ An introduction to Morse theory. (English summary) **2002m:57043**
Naber, Gregory L. ★ Topological methods in Euclidean spaces. (English summary) **2002c:55001**
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57–02 Research exposition (monographs, survey articles)

(Morton, Hugh R.) *see* **Problems: Knot theory, 2002k:57001**
Rosenberg, Jonathan M. Surgery theory today—what it is and where it's going. **2002a:57001**

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Carlsson, Gunnar Problem session. (English summary)
(Filippov, V. B.) *see* **Arnol'd, Vladimir Igorevich, 2002e:58001**
Gromov, Mikhael L. Spaces and questions. **2002e:53056**
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57–03 Historical (must also be assigned at least one classification number from Section 01)

(Armentrout, Steve) *see* **Singh, Sukhjit[1], 2002m:57001**
Peltonen, Kirsi Tarina Poincarén konjektuurista jatkuu. (Finnish) [The story about Poincaré's conjecture continues]
(Poincaré, Henri) *see* **Peltonen, Kirsi**
Singh, Sukhjit[1] Mathematics of Steve Armentrout: a review. **2002m:57001**

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Carlsson, Gunnar On Jim Milgram's mathematical work. **2002f:55002**
(Milgram, Jim) *see* **Carlsson, Gunnar, 2002f:55002**
Novikov, Sergei Petrovich Classical and modern topology. Topological phenomena in real world physics. **2002c:01043**
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57–04 Explicit machine computation and programs (not the theory of computation or programming)

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Aneziris, Charilaos N. ★ The mystery of knots. **2002j:57006**
Brinkmann, Peter (*with* Schleimer, Saul) Computing triangulations of mapping tori of surface homeomorphisms. (English summary) **2002m:57023**
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57–06 Proceedings, conferences, collections, etc.

(Adem, Alejandro) *see* **Topology, geometry, and algebra: interactions and new directions, 2002c:57001**
(Birman, Joan S.) *see* **Knots, braids, and mapping class groups—papers dedicated to Joan S. Birman, 2002g:57002** *and* **Knots 2000 Korea**
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(Le Dimet, Jean-Yves) *see* **Audin, Michèle et al., 2002i:00005**
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(Vershinin, Vladimir V.) *see* **Proceedings: Conference on Geometry and Applications, 2002d:53005**
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57Mxx Low-dimensional topology

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(Shenitzer, Abe) *see* **Boltyanskii, Vladimir Grigor'evich, 2002g:57001**
(Stillwell, John) *see* **Boltyanskii, Vladimir Grigor'evich, 2002g:57001**

57M05 Fundamental group, presentations, free differential calculus

Ben Abdelghani, Leila (*with* Boyer, Steven) A calculation of the Culler-Shalen seminorms associated to small Seifert Dehn fillings. **2002e:57002**
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Pikaart, M. Large characteristic subgroups of surface groups not containing any simple loops. (English summary) **2002b:57001**
Porti, Joan *see* **Heusener, Michael et al., 2002a:57002**
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— (*with* Lines, Daniel) Involutions on knot groups and varieties of representations in a Lie group. (English summary) **2002m:57013**
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57M07 Topological methods in group theory

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57Nxx Topological manifolds

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57Qxx PL-topology

57Q05 General topology of complexes

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57Q20 Cobordism

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57Q25 Comparison of PL-structures: classification, Hauptvermutung

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57Q37 Isotopy

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57Q91 Equivariant PL-topology

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57Rxx Differential topology {For foundational questions of differentiable manifolds, see 58Axx; for infinite-dimensional manifolds, see 58Bxx.}

57R05 Triangulating

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57R10 Smoothing

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Weinstein, Alan Almost invariant submanifolds for compact group actions. (English summary) **2002d:53076**
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57S17 Finite transformation groups

Browder, William Homologically exotic free actions on products of S^m. (English summary) **2002j:57064**
Ferrario, Davide L. Equivariant deformations of manifolds and real representations. (English summary) **2002b:57042**
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Fang, Fuquan Smooth group actions on 4-manifolds and Seiberg-Witten theory. (English summary) **2002e:57042**
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Ikeda, Toru PL finite group actions on 3-manifolds which are conjugate by homeomorphisms. (English summary) **2002i:57030**
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57S20 Noncompact Lie groups of transformations

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Elfving, Erik Johannes The G-homotopy type of proper locally linear G-manifolds. II. (English summary) **2002e:57053**
Hirsch, Morris W. (*with* Weinstein, Alan) Fixed points of analytic actions of supersoluble Lie groups on compact surfaces. (English summary) **2002j:57067**
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Kankaanrinta, Marja Some basic results for proper free G-manifolds, where G is a discrete group. (English summary) **2002k:57084**
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Alekseevskiĭ, D. V. (*with* Grimaldi, Renata; Maniscalco, I.) Transitive groups of quasi-isometries and growth. (English and Italian summaries) **2002k:53046**
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Seade, José A. (*with* Verjovsky, Alberto) Actions of discrete groups on complex projective spaces. **2002d:32024**
Sładkowski, Jan Gravity on exotic $\mathbb{R}^4$'s with few symmetries. (English summary) **2002d:53092**
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57S25 Groups acting on specific manifolds

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Fujiki, Akira Compact self-dual manifolds with torus actions. (English summary) **2002k:57085**
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Naolekar, Aniruddha C. (*with* Sankaran, Parameswaran) Chaotic group actions on manifolds. (English summary) **2002f:57075**
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Dancer, Andrew S. (*with* Swann, Andrew) Quaternionic Kahler manifolds of cohomogeneity one. (English summary) **2002a:53058**
Eschenburg, J.-H. Almost positive curvature on the Gromoll-Meyer 7-sphere. (English summary) **2002i:53045**
Gadgil, Siddhartha The pq-condition for 3-manifold groups. (English summary) **2002i:57021**
Gorodski, Claudio (*with* Gusevskiĭ, N. A.) Complete minimal hypersurfaces in complex hyperbolic space. (English summary) **2002a:53078**
— Delaunay-type surfaces in the 2×2 real unimodular group. (English summary) **2002f:53106**
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Hanke, Bernhard Symmetrie der Sphären. (German summary) [Symmetry of spheres]
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Ikeda, Toru A topological approach to the Nielsen's realization problem for Haken 3-manifolds. (English summary) **2002g:57036**
Kashani, S. M. B. On cohomogeneity one Riemannian manifolds. (English summary) **2002h:53091**
Kobayashi, Toshiyuki[1] Discontinuous groups for non-Riemannian homogeneous spaces. **2002f:53086**
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Malfait, Wim Homotopically periodic maps of model aspherical manifolds. (English summary) **2002d:57030**
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Vieira, João P. Free Z_3^r-actions on products of spheres. (English summary) **2002c:57061**
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57S30 Discontinuous groups of transformations

Apanasov, Boris N. ★ Conformal geometry of discrete groups and manifolds. **2002k:57087**
Dekimpe, Karel (*with* Igodt, Paul; Malfait, Wim) Infra-nilmanifolds and their fundamental groups. (English summary) **2002g:57068**
Fisher, David Michael (*with* Whyte, Kevin) Continuous quotients for lattice actions on compact spaces. (English summary) **2002j:57070**
Igodt, Paul *see* **Dekimpe, Karel et al., 2002g:57068**
Izeki, Hiroyasu Quasiconformal stability of Kleinian groups and an embedding of a space of flat conformal structures. (English summary) **2002a:57056**
Lee, Kyung Bai (*with* Raymond, Frank) Seifert manifolds. **2002m:57047**
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Wong, Peter N.-S. Reidemeister number, Hirsch rank, coincidences on polycyclic groups and solvmanifolds. (English summary) **2002b:57044**

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Adem, Alejandro (*with* Smith, Jeff H.) Periodic complexes and group actions. (English summary) **2002i:57031**
Davis, Michael Walter (*with* Okun, Boris) Vanishing theorems and conjectures for the ℓ^2-homology of right-angled Coxeter groups. (English summary) **2002e:58039**
Gehring, F. W. (*with* Gilman, J. P.; Martin, G. J.) Kleinian groups with real parameters. (English summary) **2002m:30057**
Gilman, J. P. *see* **Gehring, F. W. et al., 2002m:30057**
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Klimenko, Elena Some examples of discrete groups and hyperbolic orbifolds of infinite volume. (English summary) **2002f:57041**
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Lee, Kyung Bai (*with* Szczepański, Andrzej) Maximal holonomy of almost Bieberbach groups for Heis_5. (English summary) **2002g:20084**
Malfait, Wim The Nielsen numbers of virtually unipotent maps on infra-nilmanifolds. (English summary) **2002b:55005**
Margulis, Grigorii A. Free subgroups of the homeomorphism group of the circle. (English and French summaries) **2002b:37034**
Martin, G. J. *see* **Gehring, F. W. et al., 2002m:30057**
Okun, Boris *see* **Davis, Michael Walter, 2002e:58039**
Park, Kyeongsu Affine manifold with measure preserving projective holonomy group. (English summary) **2002a:53065**
Smith, Jeff H. *see* **Adem, Alejandro, 2002i:57031**
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Tirao, Paulo Primitive compact flat manifolds with holonomy group $Z_2 \oplus Z_2$. (English summary) **2002e:57037**
Tsemo, Aristide Décomposition des variétés affines. (English and French summaries) [Decomposition of affine manifolds] **2002a:53044**
Wolf, Joseph A. Isoclinic spheres and flat homogeneous pseudo-Riemannian manifolds. (English summary) **2002c:53118**
Yokoi, Katsuya *see* **Hosaka, Tetsuya, 2002b:20055**
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57S99 None of the above, but in this section

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Adams, Scot Orbit nonproper actions on Lorentz manifolds. (English summary) **2002f:37048**
Cencelj, Matija (*with* Mramor Kosta, N.) CW decompositions of equivariant CW complexes. (English summary) **2002m:57033**
Komiya, Katsuhiro Equivariant K-theoretic Euler classes and maps of representation spheres. **2002c:22020**
Lee, Hyunkoo (*with* Lee, Kyung Bai) Expanding maps on 2-step infra-nilmanifolds. (English summary) **2002i:57038**
Lee, Kyung Bai *see* **Lee, Hyunkoo, 2002i:57038**
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Oprea, John (*with* Walsh, John J.) Quotient maps, group actions and Lusternik-Schnirelmann category. (English summary) **2002i:55001**
Walsh, John J. *see* **Oprea, John, 2002i:55001**

57Txx Homology and homotopy of topological groups and related structures

57T05 Hopf algebras [see also 16W30]

Items with secondary classifications in 57T05

Botvinnik, B. I. (*with* Bukhshtaber, V. M.; Novikov, Sergeĭ Petrovich; Yuzvinsky, Sergey) Algebraic aspects of multiplication theory in complex cobordisms. (Russian. Russian summary) **2002b:55011**
Bukhshtaber, V. M. *see* **Botvinnik, B. I. et al., 2002b:55011**
Crossley, M. D. (*with* Whitehouse, Sarah) Higher conjugation cohomology in commutative Hopf algebras. (English summary) **2002m:16035**
Félix, Yves (*with* Halperin, Stephen; Thomas, Jean-Claude) The Serre spectral sequence of a multiplicative fibration. (English summary) **2002e:55017**
Halperin, Stephen *see* **Félix, Yves et al., 2002e:55017**
Novikov, Sergeĭ Petrovich *see* **Botvinnik, B. I. et al., 2002b:55011**
Thomas, Jean-Claude *see* **Félix, Yves et al., 2002e:55017**
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57T10 Homology and cohomology of Lie groups

Lehrer, Gus I. (*with* Segal, Graeme B.) Homology stability for classical regular semisimple varieties. (English summary) **2002m:57048**
Segal, Graeme B. *see* **Lehrer, Gus I., 2002m:57048**

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Choi, Younggi (*with* Yoon, Seon Hee) Homology of the double and the triple loop spaces of E_6, E_7, and E_8. (English summary) **2002d:55005**
— (*with* Yoon, Seon Hee) Torsion in the homology of the double loop spaces of compact simple Lie groups. (English summary) **2002k:55016**
Crabb, M. C. Fibrewise homology. (English summary) **2002d:55018**
Hoster, Matthias A new proof of the signature formula for surface bundles. (English summary) **2002a:57038**
Nishimoto, Tetsu Higher torsion in the Morava K-theory of $\mathrm{SO}(m)$ and $\mathrm{Spin}(m)$. (English summary) **2002c:55028**
Yoon, Seon Hee *see* **Choi, Younggi, 2002d:55005** *and* **2002k:55016**
Zhao, Xu An Cohomology endomorphisms of flag manifolds. (Chinese. English and Chinese summaries) **2002j:57071**

57T15 Homology and cohomology of homogeneous spaces of Lie groups

Kuribayashi, Katsuhiko The S^1-equivariant cohomology of homogeneous spaces as deformations of algebras. (English summary) **2002d:57031**
Nakagawa, Masaki The integral cohomology ring of E_7/T. **2002f:57076**
Zhao, Xu An Cohomology endomorphisms of flag manifolds. (Chinese. English and Chinese summaries) **2002j:57071**

Items with secondary classifications in 57T15

Berndt, Jürgen (*with* Console, Sergio; Fino, Anna) On index number and topology of flag manifolds. (English summary) **2002g:53086**
Console, Sergio *see* **Berndt, Jürgen et al., 2002g:53086**
Cordero, L. A. (*with* Fernández, Marisa; Gray, Alfred; Ugarte, Luis) Nilpotent complex structures. (English and Spanish summaries) **2002m:53040**
Fernández, Marisa *see* **Cordero, L. A. et al., 2002m:53040**
Fino, Anna *see* **Berndt, Jürgen et al., 2002g:53086**
Gonçalves, Daciberg Lima (*with* Wong, Peter N.-S.) Nilmanifolds are Jiang-type spaces for coincidences. (English summary) **2002c:55007**
Gray, Alfred *see* **Cordero, L. A. et al., 2002m:53040**
May, J. Peter (*with* Neumann, Frank[1]) On the cohomology of generalized homogeneous spaces. (English summary) **2002m:57049**
Neumann, Frank[1] *see* **May, J. Peter, 2002m:57049**
Terzich, S. Pontryagin classes of generalized symmetric spaces. (Russian. Russian summary) **2002i:57036**
Ugarte, Luis *see* **Cordero, L. A. et al., 2002m:53040**
Wong, Peter N.-S. *see* **Gonçalves, Daciberg Lima, 2002c:55007**

57T20 Homotopy groups of topological groups and homogeneous spaces

Chaves, Lucas M. (*with* Rigas, A.) Geodesic generators of $\pi_n\mathrm{Spin}(n+1)$. (English summary) **2002a:57057**
Minami, Haruo On the 3-component of $\mathrm{SU}(n)$ as a framed manifold. **2002h:57051**
Rigas, A. *see* **Chaves, Lucas M., 2002a:57057**

Items with secondary classifications in 57T20

Bendersky, Martin (*with* Davis, Donald M.) The 1-line of the K-theory Bousfield-Kan spectral sequence for $\mathrm{Spin}(2n+1)$. (English summary) **2002e:55018**
Davis, Donald M. *see* **Bendersky, Martin, 2002e:55018**
Hirato, Yoshihiro (*with* Kachi, Hideyuki; Mimura, Mamoru) Homotopy groups of the homogeneous spaces F_4/G_2 and $F_4/\mathrm{Spin}(9)$. (English summary) **2002h:55015**
Ishiguro, Kenshi Toral groups and classifying spaces of p-compact groups. (English summary) **2002b:55028**
Kachi, Hideyuki *see* **Hirato, Yoshihiro et al., 2002h:55015**
May, J. Peter (*with* Neumann, Frank[1]) On the cohomology of generalized homogeneous spaces. (English summary) **2002m:57049**
Mimura, Mamoru *see* **Hirato, Yoshihiro et al., 2002h:55015**
Neumann, Frank[1] *see* **May, J. Peter, 2002m:57049**

57T25 Homology and cohomology of H-spaces

Items with secondary classifications in 57T25

Félix, Yves (*with* Halperin, Stephen; Thomas, Jean-Claude) The Serre spectral sequence of a multiplicative fibration. (English summary) **2002e:55017**
Halperin, Stephen *see* **Félix, Yves et al., 2002e:55017**
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57T30 Bar and cobar constructions [see also 18G55, 55Uxx]

Ndombol, Bitjong (*with* Thomas, Jean-Claude) On the cohomology algebra of free loop spaces. (English summary) **2002h:57052**
Thomas, Jean-Claude *see* **Ndombol, Bitjong, 2002h:57052**

Items with secondary classifications in 57T30

Patras, Frédéric Generic algebras and iterated Hochschild homology. (English summary) **2002d:13018**

57T35 Applications of Eilenberg-Moore spectral sequences [see also 55R20, 55T20]

May, J. Peter (*with* Neumann, Frank[1]) On the cohomology of generalized homogeneous spaces. (English summary) **2002m:57049**
Neumann, Frank[1] *see* **May, J. Peter, 2002m:57049**

57T99 None of the above, but in this section

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Ibanez Torres, Raul (*with* de León, Manuel; López Brito, Belén; Marrero, Juan C.; Padrón, E.) Duality and modular class of a Nambu-Poisson structure. (English summary) **2002e:53127**
de León, Manuel *see* **Ibanez Torres, Raul et al., 2002e:53127**
López Brito, Belén *see* **Ibanez Torres, Raul et al., 2002e:53127**
Marrero, Juan C. *see* **Ibanez Torres, Raul et al., 2002e:53127**
Padrón, E. *see* **Ibanez Torres, Raul et al., 2002e:53127**

58–XX Global analysis, analysis on manifolds {For geometric integration theory, see 49Q15.}

58–01 Instructional exposition (textbooks, tutorial papers, etc.)

Agricola, Ilka (*with* Friedrich, Thomas) ★ Globale Analysis. (German. German summary) [Global analysis] **2002f:58001**
Conlon, Lawrence ★ Differentiable manifolds. (English summary) **2002b:58001**
(Eichhorn, Jürgen) *see* **Gadea, P. M., 2002j:58001**
Friedrich, Thomas *see* **Agricola, Ilka, 2002f:58001**
Gadea, P. M. (*with* Muñoz Masqué, J.) ★ Analysis and algebra on differentiable manifolds: a workbook for students and teachers. (English summary) **2002j:58001**
Muñoz Masqué, J. *see* **Gadea, P. M., 2002j:58001**

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Analysis and algebra on differentiable manifolds *see* **Gadea, P. M., 2002j:58001**

Items with secondary classifications in 58–01

Amann, Herbert (*with* Escher, Joachim) ★ Analysis. III. (German. German summary) **2002m:00001**
(Artino, Ralph A.) *see* **Nirenberg, Louis, 2002j:47085**
Bishop, Richard L. (*with* Crittenden, Richard J.) ★ Geometry of manifolds. **2002d:53001**
Crittenden, Richard J. *see* **Bishop, Richard L., 2002d:53001**
Escher, Joachim *see* **Amann, Herbert, 2002m:00001**
Nirenberg, Louis ★ Topics in nonlinear functional analysis. (English summary) **2002j:47085**
(Zehnder, E.) *see* **Nirenberg, Louis, 2002j:47085**

58–02 Research exposition (monographs, survey articles)

Arnol'd, Vladimir Igorevich ★ Задачи Арнольда. (Russian. Russian summary) [Arnol'd problems] **2002e:58001**
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58Cxx Calculus on manifolds; nonlinear operators [see also 46Txx, 47Hxx, 47Jxx]

58C05 Real-valued functions

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58C06 Set valued and function-space valued mappings [see also 47H04, 54C60]

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58C07 Continuity properties of mappings

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58C10 Holomorphic maps [see also 32–XX]

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58Dxx Spaces and manifolds of mappings [see also 46Txx, 53Cxx]

58D05 Groups of diffeomorphisms and homeomorphisms as manifolds [see also 22E65, 57S05]

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58D10 Spaces of imbeddings and immersions

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58D15 Manifolds of mappings [see also 46T10, 54C35]

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58D17 Manifolds of metrics (esp. Riemannian)

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58D19 Group actions and symmetry properties

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58D20 Measures (Gaussian, cylindrical, etc.) on manifolds of maps [see also 28Cxx, 46T12]

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58D25 Equations in function spaces; evolution equations [see also 34Gxx, 35K90, 35L90, 35R15, 37Lxx, 47Jxx]

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58D27 Moduli problems for differential geometric structures

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58D29 Moduli problems for topological structures

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Ivanova, T. A. (*with* Popov, A. D.) On symmetries of Chern-Simons and BF topological theories. (English summary) **2002h:57039**
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Yoshida, Takahiko The generating function for certain cohomology intersection pairings of the moduli space of flat connections. (English summary) **2002g:53152**

58D30 Applications (in quantum mechanics (Feynman path integrals), relativity, fluid dynamics, etc.)

Berg, Marcus *see* **Cartier, Pierre et al., (2002g:81001)**
Cartier, Pierre (*with* Berg, Marcus; DeWitt-Morette, Cécile; Wurm, A.) Characterizing volume forms. (English summary) (*see* **2002g:81001**)
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Mandzhavidze, I. D. Topology and perturbation theory. (English summary) **2002k:58020**
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58Exx Variational problems in infinite-dimensional spaces

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58E05 Abstract critical point theory (Morse theory, Ljusternik-Schnirelman (Lyusternik-Shnirel′man) theory, etc.)

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58E07 Abstract bifurcation theory

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58E09 Group-invariant bifurcation theory

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58E12 Applications to minimal surfaces (problems in two independent variables) [see also 49Q05]

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58E15 Application to extremal problems in several variables; Yang-Mills functionals [see also 81T13], etc.

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58E17 Pareto optimality, etc., applications to economics [see also 90C29]

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58E20 Harmonic maps [see also 53C43], etc.

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58H10 Cohomology of classifying spaces for pseudogroup structures (Spencer, Gel′fand-Fuks, etc.) [see also 57R32]

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58Jxx Partial differential equations on manifolds; differential operators [see also 32Wxx, 35–XX, 53Cxx]

58J05 Elliptic equations on manifolds, general theory [see also 35–XX]

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58J20 Index theory and related fixed point theorems [see also 19K56, 46L80]

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58J22 Exotic index theories [see also 19K56, 46L05, 46L10, 46L80, 46M20]

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58J26 Elliptic genera

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58J28 Eta-invariants, Chern-Simons invariants

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58J42 Noncommutative global analysis, noncommutative residues

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58J52 Determinants and determinant bundles, analytic torsion

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58J72 Correspondences and other transformation methods (e.g. Lie-Bäcklund) [see also 35A22]

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58J99 None of the above, but in this section

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58Kxx Theory of singularities and catastrophe theory [see also 32Sxx, 37–XX]

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58K05 Critical points of functions and mappings

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58K10 Monodromy

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58K15 Topological properties of mappings

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58K30 Global theory

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58K45 Singularities of vector fields, topological aspects

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58K50 Normal forms

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58K55 Asymptotic behavior

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58K65 Topological invariants

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58K70 Symmetries, equivariance

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58K99 None of the above, but in this section

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58Z05 Applications to physics

60–XX Probability theory and stochastic processes {For additional applications, see 11Kxx, 62–XX, 90–XX, 91–XX, 92–XX, 93–XX, 94–XX.}

60–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

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J. Appl. Probab. Applied probability. Complete author and subject index: 1998–2000.

60–01 Instructional exposition (textbooks, tutorial papers, etc.)

Albert, Jeanne Sums of uniformly distributed variables: a combinatorial approach.
Cyganowski, Sasha (*with* Kloeden, Peter E.; Ombach, Jerzy) ★ From elementary probability to stochastic differential equations with MAPLE®. (English summary) **2002k:60001**
Durrett, Richard ★ Essentials of stochastic processes. (English summary) **2002i:60001**
Haigh, John[1] ★ Probability models. (English summary) **2002k:60002**
Kallenberg, Olav ★ Foundations of modern probability. **2002m:60002**
Klebaner, Fima C. ★ Introduction to stochastic calculus with applications. **2002h:60001**
Kloeden, Peter E. *see* **Cyganowski, Sasha et al., 2002k:60001**
Mills, T. M. ★ Problems in probability. (English summary) **2002j:60001**
Ombach, Jerzy *see* **Cyganowski, Sasha et al., 2002k:60001**
Pollard, David ★ A user's guide to measure theoretic probability. (English summary) **2002k:60003**
Schinazi, Rinaldo B. ★ Probability with statistical applications. (English summary) **2002g:60001**
Stoyan, Dietrich Ein gutes, zusammengedrücktes, gerütteltes, überfließendes Maß. (German summary) [A good measure, pressed down, shaken together, and running over]
Tan, Wai-Yuan ★ Stochastic models with applications to genetics, cancers, AIDS and other biomedical systems. (English summary) **2002k:60004**
Williams, David ★ Weighing the odds. (English summary) **2002i:60002**

Items with secondary classifications in 60–01

Hacking, Ian ★ An introduction to probability and inductive logic. (English summary)

60–02 Research exposition (monographs, survey articles)

Bertoin, Jean Subordinators: examples and applications. **2002a:60001**
(Korolev, V. Yu.) *see* **Uchaikin, Vladimir V., 2002a:60002**
Ledoux, Michel Concentration of measure and logarithmic Sobolev inequalities. **2002j:60002**
Pugachev, V. S. (*with* Sinitsyn, I. N.) ★ Stochastic systems. (English summary) **2002k:60005**
Sinitsyn, I. N. *see* **Pugachev, V. S., 2002k:60005**
(Sinitsyna, I. V.) *see* **Pugachev, V. S., 2002k:60005**
Uchaikin, Vladimir V. (*with* Zolotarev, Vladimir M.) ★ Chance and stability. **2002a:60002**
Valadier, Michel What differentiates stationary stochastic processes from ergodic ones: a survey. (English summary) (*see* **2002i:00012**)
Zeitouni, Ofer MAP estimation of diffusions—an updated account. (English summary) **2002c:60001**
Zinchenko, N. M. The Skorokhod representation and the strong invariance principle. (Ukrainian. Ukrainian summary) **2002k:60006**
Zolotarev, Vladimir M. *see* **Uchaikin, Vladimir V., 2002a:60002**

Items with secondary classifications in 60–02

Chaichian, M. (*with* Demichev, A.) ★ Path integrals in physics. Vol. I. (English summary) **2002k:81129**
— (*with* Demichev, A.) ★ Path integrals in physics. Vol. II. (English summary) **2002k:81130**
Demichev, A. *see* **Chaichian, M., 2002k:81129** *and* **2002k:81130**
Reinert, Gesine Stein's method and application to empirical measures. **2002a:62011**

60–03 Historical (must also be assigned at least one classification number from Section 01)

Bernhardt, Hannelore Zu Fragen der Wahrscheinlichkeitsrechnung im Briefwechsel Hans Reichenbachs. [On questions of probability theory in the correspondence of Hans Reichenbach] (*see* **2002i:01003**)
Efron, Bradley R. A. Fisher in the 21st century [MR 99e:62004]. (English summary) (*see* **2002e:62001**)
(Fisher, Ronald Aylmer) *see* **Efron, Bradley, (2002e:62001)**
(Reichenbach, Hans) *see* **Bernhardt, Hannelore, (2002i:01003)**
Whittle, Peter Applied probability in Great Britain.

Items listed otherwise than by author

Correspondence:
Reichenbach, Hans *see* **Bernhardt, Hannelore, (2002i:01003)**

Items with secondary classifications in 60–03

(Barbier, J.-É.) *see* **Seneta, Eugene et al., 2002j:60020**
(Bernoulli, Jacob) *see* **Sylla, Edith Dudley, 2002c:01027**
(Bertrand, Joseph Louis François) *see* **Seneta, Eugene et al., 2002j:60020**
Bingham, N. H. Probability and statistics: some thoughts at the turn of the millennium.
(Bolzano, Bernard) *see* **Mačák, Karel, (2002k:01004)**
(Borel, Emile) *see* **Knobloch, Eberhard**
(Bru, Bernard) *see* **Doeblin, Wolfgang, (2002a:01040)**
(Crofton, M. W.) *see* **Seneta, Eugene et al., 2002j:60020**
Doeblin, Wolfgang Sur l'équation de Kolmogoroff. [On the Kolmogorov equation] (*see* **2002a:01040**)
— Exposés et trois notes aux Comptes rendus. [Exposés and three notes to the Comptes rendus] (*see* **2002a:01040**)
Gorostiza, Luis G. Probability in the twentieth century. (Spanish. English and Spanish summaries) **2002h:01019**
(Grant, Hardy) *see* **Mathematics of the 19th century, 2002d:01020**
Ineichen, Robert "Es ist wie bei den Spielen"—Nicole Oresme und sein Beitrag in der Vorgeschichte der Stochastik. (English and German summaries) ["It is like gaming"—Nicole Oresme and his contribution in the prehistory of stochastics] **2002k:01012**
Jongmans, François *see* **Seneta, Eugene et al., 2002j:60020**
Kilinç, Berna Eden The reception of John Venn's philosophy of probability.
Knobloch, Eberhard Emile Borel's view of probability theory.
(Kolmogorov, Andreĭ Nikolaevich) *see* **Mathematics of the 19th century, 2002d:01020** *and* **Vovk, Vladimir G.**
León, José R. Forty years of probability theory in Venezuela. (Spanish) (*see* **2002e:01002**)
Mačák, Karel Bernard Bolzano and the calculus of probabilities. (Czech) (*see* **2002k:01004**)
— ★ Počátky počtu pravděpodobnosti. (Czech) [On the origin of the calculus of probabilities] **2002k:01005**
— Remarks on the development of probability theory in the seventeenth and eighteenth centuries. (Czech) (*see* **2002k:01003**)
Meyer, Paul-André Les processus stochastiques de 1950 à nos jours. [Stochastic processes from 1950 to today] **2002g:60107**
(Oresme, Nicole) *see* **Ineichen, Robert, 2002k:01012**
Parshall, Karen Hunger *see* **Seneta, Eugene et al., 2002j:60020**
Seneta, Eugene (*with* Parshall, Karen Hunger; Jongmans, François) Nineteenth-century developments in geometric probability: J. J. Sylvester, M. W. Crofton, J.-É. Barbier, and J. Bertrand. **2002j:60020**
Sheĭnin, O. B. Social statistics and probability theory in the 19th century. (English summary) **2002i:01013**
— *see also* **Mathematics of the 19th century, 2002d:01020**
(Shenitzer, Abe) *see* **Mathematics of the 19th century, 2002d:01020**
Sylla, Edith Dudley Jacob Bernoulli on analysis, synthesis, and the law of large numbers. **2002c:01027**
(Sylvester, J. J.) *see* **Seneta, Eugene et al., 2002j:60020**
(Venn, John) *see* **Kilinç, Berna Eden**
Vovk, Vladimir G. Kolmogorov's complexity conception of probability. (English summary)
(Yushkevich, A. P.) *see* **Mathematics of the 19th century, 2002d:01020**

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Mathematics of the 19th century ★ Mathematics of the 19th century. **2002d:01020**

60–04 Explicit machine computation and programs (not the theory of computation or programming)

Ayati, Bruce P. (*with* Neuhauser, Claudia) A Markov embedding approximation for a stochastic population model with exogenous disturbances. (English summary)
Neuhauser, Claudia *see* **Ayati, Bruce P.**

Items with secondary classifications in 60–04

Kirkland, Stephen J. (*with* Neumann, Michael; Xu, Jianhong) A divide and conquer approach to computing the mean first passage matrix for Markov chains via Perron complement reductions. (English summary) **2002b:65016**
Monahan, John F. ★ Numerical methods of statistics. (English summary) **2002a:65002**
Neumann, Michael *see* **Kirkland, Stephen J. et al., 2002b:65016**
Xu, Jianhong *see* **Kirkland, Stephen J. et al., 2002b:65016**

60–06 Proceedings, conferences, collections, etc.

(Accardi, Luigi) *see* **Recent developments in infinite-dimensional analysis and quantum probability**
(Azéma, J.) *see* **Seminar: Probability Theory, 2002a:60003**
(Borra, Simone) *see* **Nonlinear methods and data mining**
(Di Ciaccio, Agostino) *see* **Nonlinear methods and data mining**
(Dshalalow, Jewgeni H.) *see* **Applied and theoretical probability**
(Émery, M.) *see* **Seminar: Probability Theory, 2002a:60003**
(Giné, Evarist) *see* **High dimensional probability, 2002d:60001**
(Hida, Takeyuki) *see* **Recent developments in infinite-dimensional analysis and quantum probability**
(Itô, Kiyosi) *see* **Meeting: Probability Theory**
(Kuo, Hui-Hsiung) *see* **Recent developments in infinite-dimensional analysis and quantum probability**
(Ledoux, Michel) *see* **Seminar: Probability Theory, 2002a:60003**

(Mason, David M.) *see* **High dimensional probability, 2002d:60001**
(Obata, Nobuaki) *see* **Recent developments in infinite-dimensional analysis and quantum probability**
(Richards, Donald St. P.) *see* **Algebraic methods in statistics and probability, 2002h:60002**
(Saitô, Kimiaki) *see* **Recent developments in infinite-dimensional analysis and quantum probability**
(Si Si) *see* **Recent developments in infinite-dimensional analysis and quantum probability**
(Streit, Ludwig) *see* **Recent developments in infinite-dimensional analysis and quantum probability**
(Viana, Marlos A. G.) *see* **Algebraic methods in statistics and probability, 2002h:60002**
(Wellner, Jon A.) *see* **High dimensional probability, 2002d:60001**
(Yor, Marc) *see* **Seminar: Probability Theory, 2002a:60003**

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Algebraic methods in statistics and probability ★ Algebraic methods in statistics and probability. **2002h:60002**
Applied and theoretical probability ★ Applied and theoretical probability.
Contemporary Mathematics ★ Algebraic methods in statistics and probability. **2002h:60002**
Festschrift:
Hida, Takeyuki ★ Recent developments in infinite-dimensional analysis and quantum probability.
Itô, Kiyosi ★ Rencontre Franco-Japonaise de Probabilités. [Franco-Japanese Meeting on Probability Theory]
High dimensional probability ★ High dimensional probability. II. **2002d:60001**
Lecture Notes in Mathematics ★ Séminaire de Probabilités. XXXV. [Seminar on Probability Theory. XXXV] **2002a:60003**
Meeting:
Probability Theory ★ Rencontre Franco-Japonaise de Probabilités. [Franco-Japanese Meeting on Probability Theory]
Nałęczow ★ Proceedings of the Seminar on Stability Problems for Stochastic Models. Part I.
— ★ Proceedings of the Seminar on Stability Problems for Stochastic Models. Part II.
— ★ Proceedings of the Seminar on Stability Problems for Stochastic Models. Part III.
Nonlinear methods and data mining ★ Nonlinear methods and data mining.
Notre Dame, IN ★ Algebraic methods in statistics and probability. **2002h:60002**
Paris ★ Rencontre Franco-Japonaise de Probabilités. [Franco-Japanese Meeting on Probability Theory]
Proceedings:
Seminar on Stability Problems for Stochastic Models ★ Proceedings of the Seminar on Stability Problems for Stochastic Models. Part I.
— ★ Proceedings of the Seminar on Stability Problems for Stochastic Models. Part II.
— ★ Proceedings of the Seminar on Stability Problems for Stochastic Models. Part III.
Recent developments in infinite-dimensional analysis and quantum probability ★ Recent developments in infinite-dimensional analysis and quantum probability.
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Seattle, WA ★ High dimensional probability. II. **2002d:60001**
Seminar:
Probability Theory ★ Séminaire de Probabilités. XXXV. [Seminar on Probability Theory. XXXV] **2002a:60003**
Session:
Algebraic Methods in Statistics ★ Algebraic methods in statistics and probability. **2002h:60002**

Items with secondary classifications in 60–06

(Al'beverio, S.) *see* **Mathematical physics and stochastic analysis, 2002k:00035**
(Blanchard, Philippe) *see* **Mathematical physics and stochastic analysis, 2002k:00035**
(Doeblin, Wolfgang) *see* **On Kolmogorov's equation, by W. Doeblin, 2002a:01040**
(Ferreira, Lídia S.) *see* **Mathematical physics and stochastic analysis, 2002k:00035**
(Goles Ch., Eric) *see* **Complex systems, 2002j:37002**
(Heyer, Herbert) *see* **Infinite dimensional harmonic analysis, 2002c:00028**
(Hida, Takeyuki) *see* **Quantum information, 2002h:00019** *and* **Mathematical physics and stochastic analysis, 2002k:00035**
(Hirai, Takeshi) *see* **Infinite dimensional harmonic analysis, 2002c:00028**
(Hitczenko, Paweł) *see* **Probabilistic methods in combinatorics and combinatorial optimization**
(Iyengar, R. N.) *see* **IUTAM Symposium: Nonlinearity and Stochastic Structural Dynamics, 2002k:74001**
(Kondrat'ev, Yu. G.) *see* **Mathematical physics and stochastic analysis, 2002k:00035**
(Martínez, Servet) *see* **Complex systems, 2002j:37002**
(Mittnik, Stefan) *see* **Stable non-Gaussian models in finance and econometrics, 2002c:91001**
(Narayanan, S.) *see* **IUTAM Symposium: Nonlinearity and Stochastic Structural Dynamics, 2002k:74001**
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(Rachev, Svetlozar T.) *see* **Stable non-Gaussian models in finance and econometrics, 2002c:91001**
(Saitô, Kimiaki) *see* **Quantum information, 2002h:00019**
(Scozzafava, Romano) *see* **Partial knowledge and uncertainty: independence, conditioning, inference**
(Seillier-Moiseiwitsch, Françoise) *see* **Statistics in molecular biology and genetics, 2002b:92001**
(Streit, Ludwig) *see* **Mathematical physics and stochastic analysis, 2002k:00035**
(Vakhaniya, Nikolaĭ Nikolaevich) *see* **Dedicated to Professor Nicholas Vakhania on the occasion of his 70th birthday**
(Vilela Mendes, Rui) *see* **Mathematical physics and stochastic analysis, 2002k:00035**
(Yong, Jiong Min) *see* **Recent developments in mathematical finance, 2002i:91004**

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Complex systems ★ Complex systems. **2002j:37002**
Conference:
Mathematical Finance ★ Recent developments in mathematical finance. **2002i:91004**
Statistics in Molecular Biology ★ Statistics in molecular biology and genetics. **2002b:92001**
Dedicated to Professor Nicholas Vakhania on the occasion of his 70th birthday ★ {Dedicated to Professor Nicholas Vakhania on the occasion of his 70th birthday}.
Festschrift:
Streit, Ludwig ★ Mathematical physics and stochastic analysis. **2002k:00035**
Vakhaniya, N. N. ★ {Dedicated to Professor Nicholas Vakhania on the occasion of his 70th birthday}.
Hajdúszoboszló ★ Proceedings of the 18th Seminar on Stability Problems for Stochastic Models. Part III.
Infinite dimensional harmonic analysis ★ Infinite dimensional harmonic analysis. **2002c:00028**
IUTAM Symposium:
Nonlinearity and Stochastic Structural Dynamics ★ IUTAM Symposium on Nonlinearity and Stochastic Structural Dynamics. **2002k:74001**
Kyoto ★ Infinite dimensional harmonic analysis. **2002c:00028**
Lisbon ★ Mathematical physics and stochastic analysis. **2002k:00035**
Madras ★ IUTAM Symposium on Nonlinearity and Stochastic Structural Dynamics. **2002k:74001**
Mathematical models and stochastic processes arising in natural phenomena and their applications ★ Shizen genshō ni arawareru sūgaku moderu oyobi kakuritsu katei to sono shūhen. [Mathematical models and stochastic processes arising in natural phenomena and their applications] **2002b:00036**
Mathematical physics and stochastic analysis ★ Mathematical physics and stochastic analysis. **2002k:00035**
Nagoya ★ Quantum information. II. **2002h:00019**
On Kolmogorov's equation, by W. Doeblin ★ Sur l'équation de Kolmogoroff, par W. Doeblin. (French) [On Kolmogorov's equation, by W. Doeblin] **2002a:01040**
Partial knowledge and uncertainty: independence, conditioning, inference ★ Partial knowledge and uncertainty: independence, conditioning, inference.
Probabilistic methods in combinatorics and combinatorial optimization ★ Probabilistic methods in combinatorics and combinatorial optimization.
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Quantum information ★ Quantum information. II. **2002h:00019**
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Santiago ★ Complex systems. **2002j:37002**
Seattle, WA ★ Statistics in molecular biology and genetics. **2002b:92001**
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Stable non-Gaussian models in finance and econometrics ★ Stable non-Gaussian models in finance and econometrics. **2002c:91001**
Statistics in molecular biology and genetics ★ Statistics in molecular biology and genetics. **2002b:92001**
Sur l'équation de Kolmogoroff, par W. Doeblin ★ Sur l'équation de Kolmogoroff, par W. Doeblin. (French) [On Kolmogorov's equation, by W. Doeblin] **2002a:01040**

60Axx Foundations of probability theory

Items with secondary classifications in 60Axx

Mills, T. M. ★ Problems in probability. (English summary) **2002j:60001**
Pollard, David ★ A user's guide to measure theoretic probability. (English summary) **2002k:60003**

60A05 Axioms; other general questions

Bertsimas, Dimitris (*with* Kogan, Leonid; Lo, Andrew W.) When is time continuous? [J. Financial Econ. **55** (2000), no. 2, 173–204]. (*see* **2002m:91004**)
(Borel, Emile) *see* **Knobloch, Eberhard**
de Campos Ibáñez, Luis Miguel (*with* Huete, Juan F.) Measurement of possibility distributions. (English summary) **2002k:60007**
Chen, Y. C. *see* **Wang, Pei Zhuang et al.**
Coletti, G. (*with* Scozzafava, Romano) From conditional events to conditional measures: a new axiomatic approach. (English summary) **2002i:60003**
Gilboa, Itzhak (*with* Schmeidler, David) Cognitive foundations of probability. (English summary) **2002m:60003**
Hochkirchen, Thomas ★ Die Axiomatisierung der Wahrscheinlichkeitsrechnung und ihre Kontexte. (German) [The axiomatization of probability theory and its contexts] **2002i:60004**
Huete, Juan F. *see* **de Campos Ibáñez, Luis Miguel, 2002k:60007**
Kilinç, Berna Eden The reception of John Venn's philosophy of probability.
Knobloch, Eberhard Emile Borel's view of probability theory.
Kogan, Leonid *see* **Bertsimas, Dimitris et al., (2002m:91004)**
(Kolmogorov, Andreĭ Nikolaevich) *see* **Vovk, Vladimir G.**
Lo, Andrew W. *see* **Bertsimas, Dimitris et al., (2002m:91004)**
Low, B. T. *see* **Wang, Pei Zhuang et al.**
Maturo, Antonio Finitely additive conditional probabilities with values on a hyperstructure. (English summary) **2002f:60001**
Muldowney, Pat Topics in probability using generalised Riemann integration. (English summary) **2002m:60004**
Nau, Robert F. The aggregation of imprecise probabilities. (English summary)
Paris, J. B. On the distribution of probability functions in the natural world. (English summary)
Rota, Gian-Carlo Twelve problems in probability no one likes to bring up. **2002g:60002**
Schmeidler, David *see* **Gilboa, Itzhak, 2002m:60003**

Scozzafava, Romano *see* **Coletti, G., 2002i:60003**
Seidenfeld, Teddy Remarks on the theory of conditional probability: some issues of finite versus countable additivity.
Shafer, Glenn (*with* Vovk, Vladimir G.) ★ Probability and finance. (English summary) **2002k:60008**
— Nature's possibilities and expectations.
Sugita, Hiroshi (*with* Takanobu, Satoshi) Way of looking at probability theory, "the probability of 2 integers working together"—verification of the estimate through numerical experimentation. (Japanese)
Takanobu, Satoshi *see* **Sugita, Hiroshi**
Trifonova, L. B. *see* **Zelichenko, V. M., 2002k:60010**
Vantaggi, Barbara The L-separation criterion for description of cs-independence models. (English summary) **2002k:60009**
(Venn, John) *see* **Kilinç, Berna Eden**
Vovk, Vladimir G. Kolmogorov's complexity conception of probability. (English summary)
— *see also* **Shafer, Glenn, 2002k:60008**
Wang, Pei Zhuang (*with* Chen, Y. C.; Low, B. T.) Measure extension from meet-systems and falling measures representation. (English summary)
Wilson, Alma Teao Axioms for probability from aggregatibility. (English summary) (*see* **2002k:62012**)
Zelichenko, V. M. (*with* Trifonova, L. B.) A probabilistic description of the learning process. (Russian. Russian summary) **2002k:60010**

Items with secondary classifications in 60A05

Allouche, Jean-Paul Algebraic and analytic randomness. (English summary) **2002i:68099**
Bedford, Tim (*with* Cooke, Roger Marvin) ★ Probabilistic risk analysis: foundations and methods. (English summary) **2002m:62001**
Bernhardt, Hannelore Zu Fragen der Wahrscheinlichkeitsrechnung im Briefwechsel Hans Reichenbachs. [On questions of probability theory in the correspondence of Hans Reichenbach] (*see* **2002i:01003**)
Bingham, N. H. Probability and statistics: some thoughts at the turn of the millennium.
Cooke, Roger Marvin *see* **Bedford, Tim, 2002m:62001**
D'Agostini, G. Role and meaning of subjective probability: some comments on common misconceptions. (English summary) (*see* **2002i:62005**)
Dall'Aglio, Marco On some applications of LSIP to probability and statistics. (English summary) (*see* **2002g:90003**)
Dubois, Didier (*with* Nguyen, Hung Trung; Prade, Henri) Possibility theory, probability and fuzzy sets. Misunderstandings, bridges and gaps. (English summary)
Franklin, James William Resurrecting logical probability. (English summary) **2002m:03038**
Galavotti, Maria Carla Some remarks on objective chance (F. P. Ramsey, K. R. Popper and N. R. Campbell). (*see* **2002b:03007**)
Goldstein, Michael[1] (*with* Wilkinson, Darren James) Restricted prior inference for complex uncertainty structures. (English summary) **2002h:68204**
Hacking, Ian ★ An introduction to probability and inductive logic. (English summary)
Herrmann, Robert A. Ultralogics and probability models. (English summary) **2002k:03115**
Khrennikov, A. Yu. Ensemble fluctuations and the origin of quantum probabilistic rule. (English summary) **2002j:81007**
Kozine, I. O. Prior reliability assessments based on coherent imprecise probabilities. (English summary) **2002m:90023**
Maher, Patrick Probabilities for multiple properties: the models of Hesse and Carnap and Kemeny. (English summary) **2002k:03035**
Mumford, David The dawning of the age of stochasticity. (English summary) **2002d:00007**
Nguyen, Hung Trung *see* **Dubois, Didier et al.**
Prade, Henri *see* **Dubois, Didier et al.**
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Su, Yong Fu On definition of probabilistic inner product space. (English and Chinese summaries)
Vovk, Vladimir G. Probability theory for the Brier game. (English summary) **2002e:91014**
Wagner, Carl G. Old evidence and new explanation. III. (English summary) **2002g:03048**
Weichselberger, Kurt The theory of interval-probability as a unifying concept for uncertainty. (English summary) **2002e:68129**
Wilkinson, Darren James *see* **Goldstein, Michael[1], 2002h:68204**

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Correspondence:
Reichenbach, Hans *see* **Bernhardt, Hannelore, (2002i:01003)**

60A10 Probabilistic measure theory {For ergodic theory, see 28Dxx and 60Fxx.}

Belock, Julie (*with* Dobric, Vladimir) Random variable dilation equation and multidimensional prescale functions. (English summary) **2002g:60003**
Bożejko, Marek (*with* Wysoczański, Janusz) Remarks on t-transformations of measures and convolutions. (English and French summaries) **2002i:60005**
Bukszár, József Quickly computable bounds on the probability of a union. (English summary) (*see* **2002i:90007**)
Dobric, Vladimir *see* **Belock, Julie, 2002g:60003**
Florescu, Liviu C. (*with* Godet-Thobie, Christiane) Quelques propriétés des mesures de Young. [Some properties of Young measures] **2002m:60005**
Godet-Thobie, Christiane *see* **Florescu, Liviu C., 2002m:60005**
Hanzon, Bernard (*with* Ober, Raimund J.) A state-space calculus for rational probability density functions and applications to non-Gaussian filtering. (English summary) **2002j:60003**
Kadane, Joseph B. *see* **Seidenfeld, Teddy et al., 2002m:60006**
MacQueen, James Estimating relative density on a metric space. (English summary) **2002f:60002**
Móri, Tamás F. *see* **Székely, Gábor J., 2002h:60003**
Ober, Raimund J. *see* **Hanzon, Bernard, 2002j:60003**
Paszkiewicz, Adam On the almost sure convergence of all conditionings of positive random variables. (English summary) **2002e:60001**
Schervish, Mark J. *see* **Seidenfeld, Teddy et al., 2002m:60006**
Seidenfeld, Teddy (*with* Schervish, Mark J.; Kadane, Joseph B.) Improper regular conditional distributions. (English summary) **2002m:60006**
Székely, Gábor J. (*with* Móri, Tamás F.) Independence and atoms. (English summary) **2002h:60003**
Wysoczański, Janusz *see* **Bożejko, Marek, 2002i:60005**

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Artstein, Zvi Compact convergence of σ-fields and relaxed conditional expectation. (English summary) **2002g:28003**
Carro, María Jesús Modular inequalities for averaging-type operators. (English summary) **2002k:46069**
Csiszár, Imre (*with* Matúš, František) Convex cores of measures on $\mathbb{R}^d$. (English summary) **2002j:60004**
Cuculescu, Ion (*with* Theodorescu, Radu) Mean preserving representations for unimodal probability measures. (English summary) **2002i:60025**
Frič, Roman Boolean algebras: convergence and measure. (English summary) **2002i:28005**
Ganatsiou, C. On some properties of the Lüroth-type alternating series representations for real numbers. (English summary) **2002k:11133**
Georgescu, George Some model theory for probability structures. (English summary) **2002k:03033**
Haigh, John[1] ★ Probability models. (English summary) **2002k:60002**
Macheras, N. D. *see* **Musiał, Kazimierz et al., 2002j:28007**
Matúš, František *see* **Csiszár, Imre, 2002j:60004**
Musiał, Kazimierz (*with* Strauss, Werner; Macheras, N. D.) Product liftings and densities with lifting invariant and density invariant sections. (English summary) **2002j:28007**
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60Bxx Probability theory on algebraic and topological structures

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60G30 Continuity and singularity of induced measures

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60J40 Right processes

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60J57 Multiplicative functionals

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Chen, Zen-Yi On the statistical computation of the sample multiple correlation coefficient. (English summary)
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62–06 Proceedings, conferences, collections, etc.

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(Bernard, Jean-Marc) *see* **Imprecise probability models and their applications**
(Bisgaard, Søren) *see* **Box, George E. P., 2002f:62003**
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(Frigessi, Arnoldo) *see* **Statistical models and methods for discontinuous phenomena**
(Golan, Amos) *see* **Information and entropy econometrics**
(Groenen, Patrick J. F.) *see* **Data analysis, classification, and related methods, 2002d:62002**
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62Bxx Sufficiency and information

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62F05 Asymptotic properties of tests

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62F35 Robustness and adaptive procedures

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62F40 Bootstrap, jackknife and other resampling methods

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62G09 Resampling methods

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62Hxx Multivariate analysis [see also 60Exx]

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62H11 Directional data; spatial statistics

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62H12 Estimation

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62H15 Hypothesis testing

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62H25 Factor analysis and principal components; correspondence analysis

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62Jxx Linear inference, regression

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62J15 Paired and multiple comparisons

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62J20 Diagnostics

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62K25 Robust parameter designs

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62L99 None of the above, but in this section

Items with secondary classifications in 62L99

Chattopadhyay, Saibal (*with* Chaturvedi, Ajit; Sengupta, Raghu Nandan) Sequential estimation of a linear function of normal means under asymmetric loss function. (English summary) **2002c:62122**
Chaturvedi, Ajit *see* **Chattopadhyay, Saibal et al., 2002c:62122**
Hwang, Leng-Cheng (*with* Yang, Chia-Chen) An interval estimation procedure with deterministic stopping rule in Bayes sequential interval estimation. (English summary) **2002f:62080**
Scott, Alastair J. (*with* Wild, C. J.) Maximum likelihood for generalised case-control studies. (English summary)
Sengupta, Raghu Nandan *see* **Chattopadhyay, Saibal et al., 2002c:62122**
Wild, C. J. *see* **Scott, Alastair J.**
Yang, Chia-Chen *see* **Hwang, Leng-Cheng, 2002f:62080**

62Mxx Inference from stochastic processes

Brillinger, David R. ★ Time series. (English summary)

Items with secondary classifications in 62Mxx

Rao, Malempati Madhusudana ★ Stochastic processes. (English summary) **2002b:62004**
Tan, Wai-Yuan ★ Stochastic modeling of AIDS epidemiology and HIV pathogenesis. **2002j:62003**

62M02 Markov processes: hypothesis testing

Chen, Ping[2] *see* **Liu, Ping**
Di Crescenzo, Antonio (*with* Ricciardi, Luigi M.) On a discrimination problem for a class of stochastic processes with ordered first-passage times. (English summary) **2002c:62125**
Guyon, X. *see* **Hardouin, C., 2002f:62081**
Hardouin, C. (*with* Guyon, X.) Standards adoption dynamics and test for nonspatial coordination. (English summary) **2002f:62081**
Iacus, Stefano Maria (*with* Kutoyants, Yurii) Semiparametric hypotheses testing for dynamical systems with small noise. (English summary) **2002e:62077**
Kutoyants, Yurii *see* **Iacus, Stefano Maria, 2002e:62077**
Liu, Ping (*with* Chen, Ping[2]) Asymptotic normality of a PL-type estimator under competing risk case. (Chinese. English and Chinese summaries)
Menéndez, M. L. (*with* Pardo Llorente, Julio Ángel; Pardo, Leandro) Csiszar's φ-divergences for testing the order in a Markov chain. (English summary) **2002h:62249**
Novikov, Andreĭ Alekseevich Uniform asymptotic expansion of likelihood ratio for Markov dependent observations. (English summary) **2002j:62105**
Pardo, Leandro *see* **Menéndez, M. L. et al., 2002h:62249**
Pardo Llorente, Julio Ángel *see* **Menéndez, M. L. et al., 2002h:62249**
Ricciardi, Luigi M. *see* **Di Crescenzo, Antonio, 2002c:62125**

Items with secondary classifications in 62M02

Anderson, Brian D. O. *see* **Shue, Louis et al., 2002e:94043**
Basawa, I. V. Inference in stochastic processes. (English summary)
Chang, I-Shou (*with* Chuang, Yuan-Chuan; Hsiung, Chao A.) Goodness-of-fit tests for semi-Markov and Markov survival models with one intermediate state. (English summary) **2002g:62123**
Chiyonobu, Taizo Hypothesis testing for signal detection problem and large deviations. (English summary) **2002k:60158**
Chuang, Yuan-Chuan *see* **Chang, I-Shou et al., 2002g:62123**
Clayton, Murray K. *see* **Hsiao, Chin-Fu, 2002g:62119**
De Bruyne, Franky *see* **Shue, Louis et al., 2002e:94043**
Hsiao, Chin-Fu (*with* Clayton, Murray K.) Lerche's sequential test for the drift of a Brownian motion with a smooth prior. (English summary) **2002g:62119**
Hsiung, Chao A. *see* **Chang, I-Shou et al., 2002g:62123**

Khalfina, N. M. Application of the Chauvenet method for detecting outliers in observations connected in a homogeneous Markov chain. (Russian. English and Russian summaries) **2002k:60145**
Malyutov, Mikhail B. (*with* Tsitovich, I. I.) Second order optimal sequential discrimination between Markov chains. (English summary) **2002m:62112**
McCracken, Michael W. An out-of-sample, nonparametric test of the martingale difference hypothesis. (English summary) (*see* **2002b:62009**)
Shue, Louis (*with* Anderson, Brian D. O.; De Bruyne, Franky) Asymptotic smoothing errors for hidden Markov models. (English summary) **2002e:94043**
Tsitovich, I. I. *see* **Malyutov, Mikhail B., 2002m:62112**

62M05 Markov processes: estimation

Al-Eideh, Basel M. *see* **Al-Zalzalah, Yousef S. H.**
Alvarez-Andrade, S. Some examples for variance estimator based on invariance principles. (English summary) **2002j:62106**
Al-Zalzalah, Yousef S. H. (*with* Al-Eideh, Basel M.) Maximum likelihood estimation on absorbing Markov chains with r absorbing states. (English summary)
Bibby, Bo Martin (*with* Sørensen, Michael) Simplified estimating functions for diffusion models with a high-dimensional parameter. (English summary) **2002k:62103**
Bollerslev, Tim (*with* Zhou, Hao) Estimating stochastic volatility diffusion using conditional moments of integrated volatility. (English summary)
Chaplya, E. *see* **Voina, A. A.**
Cheng, Qi Yuan *see* **Lin, Xiu Guang**
Chib, Siddhartha (*with* Nardari, Federico; Shephard, Neil) Markov chain Monte Carlo methods for stochastic volatility models. (English summary)
— *see also* **Elerian, Ola et al., 2002e:62078**
Clémençon, S. J. M. Adaptive estimation of the transition density of a regular Markov chain. (English summary) **2002f:62082**
Copas, John *see* **Shi, Jian Qing**
Davis, B. A. (*with* Heathcote, C. R.; O'Neill, T. J.) Estimating and interpolating a Markov chain from aggregate data. (English summary)
Dietz, Hans M. Asymptotic behaviour of trajectory fitting estimators for certain non-ergodic SDE. (English summary) **2002h:62250**
Dorea, C. C. Y. *see* **Zhao, Lin Cheng et al., 2002j:62110**
Dortet-Bernadet, Vincent Choix de modèle pour des chaînes de Markov cachées. (English and French summaries) [Model selection for hidden Markov chains] **2002a:62116**
Elerian, Ola (*with* Chib, Siddhartha; Shephard, Neil) Likelihood inference for discretely observed nonlinear diffusions. (English summary) **2002e:62078**
Frigessi, Arnoldo (*with* Gåsemyr, Jørund; Rue, Håvard) Antithetic coupling of two Gibbs sampler chains. (English summary) **2002g:62120**
Gåsemyr, Jørund *see* **Frigessi, Arnoldo et al., 2002g:62120**
Gonçalves, C. R. *see* **Zhao, Lin Cheng et al., 2002j:62110**
Gonzalez-Velasco, Miguel (*with* Molina Fernández, Manuel; Mota, M.) Estimation of the offspring distribution and the mean vector for a bisexual Galton-Watson process. (English summary) **2002h:62251**
Guglielmi, Alessandra (*with* Tweedie, Richard L.) Markov chain Monte Carlo estimation of the law of the mean of a Dirichlet process. (English summary) **2002j:62107**
Gupal, A. M. (*with* Vagis, A. A.) Statistical estimation of the Markov recognition procedure. (Russian. English, Russian and Ukrainian summaries) **2002k:62104**
Gushchin, Alexander A. (*with* Küchler, Uwe) Addendum to: "Asymptotic inference for a linear stochastic differential equation with time delay" [Bernoulli **5** (1999), no. 6, 1059–1098; MR 2000j:62124]. **2002e:62079**
Hall, W. J. *see* **Liu, Aiyi, 2002g:62121**
Heathcote, C. R. *see* **Davis, B. A. et al.**
Helmes, Kurt (*with* Srinivasan, Cidambi) Characterisation of linear mini-max estimators for loss functions of arbitrary power. (English summary) **2002h:62252**
Hettmansperger, Thomas P. *see* **Thomas, Hoben**
Ibragimov, Il'dar Abdulovich (*with* Khas'minskiĭ, R. Z.) Problems of estimating the coefficients of stochastic partial differential equations. II. (Russian. Russian summary) **2002c:62126**
Jacobsen, Martin Discretely observed diffusions: classes of estimating functions and small Δ-optimality. (English summary) **2002j:62108**
Kessler, Mathieu (*with* Schick, Anton; Wefelmeyer, Wolfgang) The information in the marginal law of a Markov chain. (English summary) **2002i:62153**
— (*with* Rahbek, Anders) Asymptotic likelihood based inference for co-integrated homogenous Gaussian diffusions. (English summary) **2002h:62253**
Khas'minskiĭ, R. Z. (*with* Mil'shteĭn, G. N.) On estimation of the linearized drift for nonlinear stochastic differential equations. (English summary) **2002d:62055**
— *see also* **Ibragimov, Il'dar Abdulovich, 2002c:62126**
Küchler, Uwe (*with* Kutoyants, Yurii) Delay estimation for some stationary diffusion-type processes. (English summary) **2002a:62117**
— *see also* **Gushchin, Alexander A., 2002e:62079**
Kutoyants, Yurii *see* **Küchler, Uwe, 2002a:62117**
Liechty, John C. (*with* Roberts, Gareth O.) Markov chain Monte Carlo methods for switching diffusion models. (English summary) **2002d:62056**
Lin, Xiu Guang (*with* Cheng, Qi Yuan) Gibbs-sampling-based approaches for estimating marginal densities. (Chinese. English and Chinese summaries)
Liu, Aiyi (*with* Hall, W. J.) Unbiased estimation of secondary parameters following a sequential test. (English summary) **2002g:62121**
Mil'shteĭn, G. N. *see* **Khas'minskiĭ, R. Z., 2002d:62055**
Mishra, M. N. (*with* Prakasa Rao, B. L. S.) Asymptotic minimax estimation in nonlinear stochastic differential equations from discrete observations. (English summary) **2002d:62057**
Molina Fernández, Manuel *see* **Gonzalez-Velasco, Miguel et al., 2002h:62251**
Mota, M. *see* **Gonzalez-Velasco, Miguel et al., 2002h:62251**
Müller, Ursula U. (*with* Schick, Anton; Wefelmeyer, Wolfgang) Improved estimators for constrained Markov chain models. (English summary) **2002j:62109**
Nardari, Federico *see* **Chib, Siddhartha et al.**
Negri, Ilia On efficient estimation of invariant density for ergodic diffusion processes. (English summary) **2002a:62118**
O'Neill, T. J. *see* **Davis, B. A. et al.**
Prakasa Rao, B. L. S. *see* **Mishra, M. N., 2002d:62057**
Rahbek, Anders *see* **Kessler, Mathieu, 2002h:62253**
Roberts, Gareth O. (*with* Stramer, O.) On inference for partially observed nonlinear diffusion models using the Metropolis-Hastings algorithm. (English summary) **2002g:62122**
— *see also* **Liechty, John C., 2002d:62056**
Roussas, George G. Some aspects of statistical inference in a Markovian and mixing framework. (English summary)
Rue, Håvard *see* **Frigessi, Arnoldo et al., 2002g:62120**
Schick, Anton Sample splitting with Markov chains. (English summary) **2002k:62105**
— *see also* **Kessler, Mathieu et al., 2002i:62153** *and* **Müller, Ursula U. et al., 2002j:62109**
Shephard, Neil *see* **Elerian, Ola et al., 2002e:62078** *and* **Chib, Siddhartha et al.**
Shi, Jian Qing (*with* Copas, John) Publication bias and meta-analysis for 2×2 tables: an average Markov chain Monte Carlo EM algorithm. (English summary)
Shoji, Isao Nonparametric state estimation of diffusion processes. (English summary)
Sørensen, Michael Prediction-based estimating functions. (English summary) **2002b:62095**
— *see also* **Bibby, Bo Martin, 2002k:62103**
Souchet Samos, Sandie Schémas de discrétisation anticipatifs et estimation du paramètre de dérive d'une diffusion. (English and French summaries) [Anticipative discretization schemes and estimation of the drift parameter of a diffusion] **2002f:62083**
Srinivasan, Cidambi *see* **Helmes, Kurt, 2002h:62252**
Sriram, T. N. (*with* Vidyashankar, A. N.) Minimum Hellinger distance estimation for supercritical Galton-Watson processes. (English summary) **2002a:62119**
Stramer, O. *see* **Roberts, Gareth O., 2002g:62122**
Thomas, Hoben (*with* Hettmansperger, Thomas P.) Modelling change in cognitive understanding with finite mixtures. (English summary)
Tweedie, Richard L. *see* **Guglielmi, Alessandra, 2002j:62107**
Vagis, A. A. *see* **Gupal, A. M., 2002k:62104**
Vidyashankar, A. N. *see* **Sriram, T. N., 2002a:62119**
Voina, A. A. (*with* Chaplya, E.) Estimation of the shift parameters for a queueing system from observations of mixed input and output flows. (Ukrainian. English summary)
Wefelmeyer, Wolfgang *see* **Kessler, Mathieu et al., 2002i:62153** *and* **Müller, Ursula U. et al., 2002j:62109**
Zhao, Lin Cheng (*with* Dorea, C. C. Y.; Gonçalves, C. R.) On determination of the order of a Markov chain. (English summary) **2002j:62110**
Zhou, Hao *see* **Bollerslev, Tim**
van Zwet, Erik W. Perfect stochastic EM. (English summary) **2002f:62084**

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Baird, Donna D. *see* **Dunson, David B.**
Basawa, I. V. Inference in stochastic processes. (English summary)
Booker, Jane M. *see* **Hanson, Kenneth M., (2002i:62005)**
Cappé, Olivier Recursive computation of smoothed functionals of hidden Markovian processes using a particle approximation. (English summary) **2002a:65015**
Cardoso, Rui M. R. (*with* dos Reis, Alfredo Egídio) Recursive calculation of time to ruin distributions. (English summary)
Csiszár, Imre (*with* Shields, Paul C.) The consistency of the BIC Markov order estimator. (English summary) **2002j:62032**
Darolles, Serge (*with* Gouriéroux, Christian) Truncated dynamics and estimation of diffusion equations. (English summary) **2002c:62130**
De Gooijer, Jan G. (*with* Gannoun, Ali; Zerom, Dawit) Multi-stage kernel-based conditional quantile prediction in time series. (English summary)
Donner, Allan (*with* Zou, Guangyong) Interval estimation for a difference between intraclass kappa statistics. (English and French summaries)
Dunson, David B. (*with* Baird, Donna D.) A proportional hazards model for incidence and induced remission of disease. (English and French summaries)
Durbin, James (*with* Koopman, S. J.) ★ Time series analysis by state space methods. (English summary) **2002g:62128**
Eisinga, Rob *see* **Pelzer, Ben**
Elliott, Robert J. (*with* Hunter, William C.; Jamieson, Barbara M.) Financial signal processing: a self calibrating model. (English summary) **2002f:91040**
Francq, Christian (*with* Zakoïan, Jean-Michel) Stationarity of multivariate Markov-switching ARMA models. (English summary) **2002c:62131**
Gamerman, Dani (*with* Moreira, Ajax R. B.) Bayesian analysis of econometric time series models using hybrid integration rules. (English summary)
Gannoun, Ali *see* **De Gooijer, Jan G. et al.**
Gapeev, P. V. A Bayesian problem for detecting a change point with an information delay criterion. (Russian) **2002h:62073**
Gloter, Arnaud (*with* Jacod, Jean) Diffusions with measurement errors. I. Local asymptotic normality. (English summary) **2002m:60152**
— (*with* Jacod, Jean) Diffusions with measurement errors. II. Optimal estimators. (English summary) **2002m:60153**
Gobet, Emmanuel Local asymptotic mixed normality property for elliptic diffusion: a Malliavin calculus approach. (English summary) **2002j:60095**
Gouriéroux, Christian *see* **Darolles, Serge, 2002c:62130**
Green, Peter J. (*with* Mira, Antonietta) Delayed rejection in reversible jump Metropolis-Hastings. (English summary)
Gutiérrez Jáimez, Ramón (*with* Román Román, P.; Torres Ruiz, F.) Inference on some parametric functions in the univariate lognormal diffusion process with exogenous factors. (English summary)
Guyon, X. (*with* Hardouin, C.) Markov chain Markov field dynamics: models and statistics. (English summary) **2002k:60144**
Hanson, Kenneth M. (*with* Booker, Jane M.) Inference from Rossi traces. (English summary) (*see* **2002i:62005**)
Hardouin, C. *see* **Guyon, X., 2002k:60144**
Heidergott, Bernd (*with* Vázquez-Abad, Felisa J.) Weak differentiation and gradient estimation for discrete event driven processes. (English summary) (*see* **2002k:93003**)

Homem-de-Mello, Tito Estimation of derivatives of nonsmooth performance measures in regenerative systems. (English summary) **2002i:60158**
Hunter, William C. *see* **Elliott, Robert J. et al., 2002f:91040**
Hwang, Leng-Cheng Asymptotically pointwise optimal rules in the Poisson process. (English summary) **2002i:62149**
Jacod, Jean *see* **Gloter, Arnaud, 2002m:60152** *and* **2002m:60153**
Jaffrézic, Florence *see* **Pletcher, Scott D.**
Jamieson, Barbara M. *see* **Elliott, Robert J. et al., 2002f:91040**
Karlsen, Hans Arnfinn (*with* Tjøstheim, Dag) Nonparametric estimation in null recurrent time series. (English summary) **2002h:62273**
Khalfina, N. M. Application of the Chauvenet method for detecting outliers in observations connected in a homogeneous Markov chain. (Russian. English and Russian summaries) **2002a:62033**
Kim, Yongdai (*with* Lee, Jaeyong) On posterior consistency of survival models. (English summary) **2002i:62098**
Koopman, S. J. *see* **Durbin, James, 2002g:62128**
Küchler, Uwe (*with* Vasil'ev, Vyacheslav A.) On sequential parameter estimation for some linear stochastic differential equations with time delay. (English summary) **2002i:62150**
Künsch, Hans R. State space and hidden Markov models.
Lee, Jaeyong *see* **Kim, Yongdai, 2002i:62098**
Mira, Antonietta On Metropolis-Hastings algorithms with delayed rejection. (English and Italian summaries)
— *see also* **Green, Peter J.**
Moreira, Ajax R. B. *see* **Gamerman, Dani**
Pelzer, Ben (*with* Eisinga, Rob) Bayesian estimation of transition probabilities from repeated cross sections. (English summary)
Pletcher, Scott D. (*with* Jaffrézic, Florence) Generalized character process models: estimating the genetic basis of traits that cannot be observed and that change with age or environmental conditions. (English and French summaries)
Puterman, Martin L. *see* **Wang, Peiming**
dos Reis, Alfredo Egídio *see* **Cardoso, Rui M. R.**
Román Román, P. *see* **Gutiérrez Jáimez, Ramón et al.**
Shi, Shanming *see* **Weigend, Andreas S., (2002m:91004)**
Shields, Paul C. *see* **Csiszár, Imre, 2002j:62032**
Singleton, Kenneth J. Estimation of affine asset pricing models using the empirical characteristic function. (English summary) **2002c:62135**
Sørensen, Michael On asymptotics of estimating functions. (English summary) **2002e:62023**
Tjøstheim, Dag *see* **Karlsen, Hans Arnfinn, 2002h:62273**
Torres Ruiz, F. *see* **Gutiérrez Jáimez, Ramón et al.**
Trajstman, Albert Charles A Markov chain model for Newcastle disease and its relevance to the intracerebral pathogenicity index. (English summary)
Uchida, Masayuki (*with* Yoshida, Nakahiro) Information criteria in model selection for mixing processes. (English summary) **2002g:62005**
Vasil'ev, Vyacheslav A. *see* **Küchler, Uwe, 2002i:62150**
Vázquez-Abad, Felisa J. *see* **Heidergott, Bernd, (2002k:93003)**
Vladeva, Dimitrinka I. Maximum likelihood estimation of k-dimensional diffusion-discrete model. (English summary) **2002m:62089**
Wang, Peiming (*with* Puterman, Martin L.) Analysis of longitudinal data of epileptic seizure counts—a two-state hidden Markov regression approach. (English summary)
Weigend, Andreas S. (*with* Shi, Shanming) Hidden Markov experts. (English summary) (*see* **2002m:91004**)
Winkler, Gerhard A stochastic algorithm for maximum likelihood estimation in imaging. (English summary) **2002d:62018**
Yoshida, Nakahiro *see* **Uchida, Masayuki, 2002g:62005**
Zakoïan, Jean-Michel *see* **Francq, Christian, 2002c:62131**
Zeitouni, Ofer MAP estimation of diffusions—an updated account. (English summary) **2002c:60001**
Zerom, Dawit *see* **De Gooijer, Jan G. et al.**
Zou, Guangyong *see* **Donner, Allan**

62M07 Non-Markovian processes: hypothesis testing

Barndorff-Nielsen, Ole E. (*with* Shephard, Neil) Non-Gaussian Ornstein-Uhlenbeck-based models and some of their uses in financial economics. (English summary) **2002c:62127**
Basawa, I. V. Inference in stochastic processes. (English summary)
Bhattacharya, Debasis *see* **Roussas, George G., 2002a:62120**
Chang, I-Shou (*with* Chuang, Yuan-Chuan; Hsiung, Chao A.) Goodness-of-fit tests for semi-Markov and Markov survival models with one intermediate state. (English summary) **2002g:62123**
Chuang, Yuan-Chuan *see* **Chang, I-Shou et al., 2002g:62123**
Hsiung, Chao A. *see* **Chang, I-Shou et al., 2002g:62123**
Roussas, George G. (*with* Bhattacharya, Debasis) Some asymptotic results and exponential approximation in semi-Markov models. (English summary) **2002a:62120**
Shephard, Neil *see* **Barndorff-Nielsen, Ole E., 2002c:62127**

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van den Berg, Eric *see* **Resnick, Sidney, 2002f:62091**
Brix, Anders (*with* Senoussi, Rachid; Couteron, P.; Chadœuf, J.) Assessing goodness of fit of spatially inhomogeneous Poisson processes. (English summary) **2002d:62068**
Chadœuf, J. *see* **Brix, Anders et al., 2002d:62068**
Couteron, P. *see* **Brix, Anders et al., 2002d:62068**
Dewan, Isha *see* **Prakasa Rao, B. L. S.**
Gonçalves, E. (*with* Martins, C. M.; Mendes-Lopes, N.) Asymptotic separation in bilinear models. (English summary) **2002b:62103**
Martins, C. M. *see* **Gonçalves, E. et al., 2002b:62103**
Mendes-Lopes, N. *see* **Gonçalves, E. et al., 2002b:62103**
Prakasa Rao, B. L. S. (*with* Dewan, Isha) Associated sequences and related inference problems. (English summary)
Psaradakis, Zacharias Markov level shifts and the unit-root hypothesis. (English summary) **2002k:62122**
Resnick, Sidney (*with* van den Berg, Eric) A test for nonlinearity of time series with infinite variance. (English summary) **2002f:62091**
Senoussi, Rachid *see* **Brix, Anders et al., 2002d:62068**
Shimatani, Kenichiro Point processes for fine-scale spatial genetics and molecular ecology. (English summary)
Sun, Yan Qing (*with* Tiwari, Ram C.; Zalkikar, Jyoti N.) Goodness of fit tests for multivariate counting process models with applications. (English summary) **2002e:62043**
Tiwari, Ram C. *see* **Sun, Yan Qing et al., 2002e:62043**
Tsiatis, Anastasios A. *see* **Zhao, Hongwei**
Zalkikar, Jyoti N. *see* **Sun, Yan Qing et al., 2002e:62043**
Zhao, Hongwei (*with* Tsiatis, Anastasios A.) Testing equality of survival functions of quality-adjusted lifetime. (English and French summaries)

62M09 Non-Markovian processes: estimation

Anh, V. V. *see* **Gao, Jiti et al., 2002j:62111**
Benyelles, Wafaa (*with* Mourid, Tahar) Estimation de la période d'un processus à temps continu à représentation autorégressive. (English and French summaries) [Period estimation of a continuous-time process with autoregressive representation] **2002e:62080**
Cleur, Eugene M. Maximum likelihood estimates of a class of one-dimensional stochastic differential equation models from discrete data. (English summary)
Coeurjolly, Jean-François (*with* Istas, Jacques) Cramèr-Rao bounds for fractional Brownian motions. (English summary) **2002g:62124**
Dewan, Isha *see* **Prakasa Rao, B. L. S.**
Douc, Randal (*with* Matias, Catherine) Asymptotics of the maximum likelihood estimator for general hidden Markov models. (English summary) **2002e:62081**
Farinetto, Christian Propriétés de l'EMV de rupture de processus de Poisson. (English and French summaries) [Some properties of the MLE in an intensity rupture model for a spatial Poisson process] **2002a:62121**
Francq, Christian (*with* Roussignol, Michel; Zakoïan, Jean-Michel) Conditional heteroskedasticity driven by hidden Markov chains. (English summary) **2002e:62082**
Gao, Jiti (*with* Anh, V. V.; Heyde, Christopher C.; Tieng, Quang) Parameter estimation of stochastic processes with long-range dependence and intermittency. (English summary) **2002j:62111**
Genon-Catalot, Valentine (*with* Jeantheau, Thierry; Larédo, Catherine) Stochastic volatility models as hidden Markov models and statistical applications. (English summary) **2002b:62096**
Gloter, Arnaud Discrete sampling of an integrated diffusion process and parameter estimation of the diffusion coefficient. (English summary) **2002a:62122**
Goldys, Beniamin (*with* Maslowski, Bohdan) Parameter estimation for controlled semilinear stochastic systems: identifiability and consistency. (English summary) **2002k:62106**
Heyde, Christopher C. *see* **Gao, Jiti et al., 2002j:62111**
Istas, Jacques *see* **Coeurjolly, Jean-François, 2002g:62124**
Jeantheau, Thierry *see* **Genon-Catalot, Valentine et al., 2002b:62096**
Larédo, Catherine *see* **Genon-Catalot, Valentine et al., 2002b:62096**
Maslowski, Bohdan *see* **Goldys, Beniamin, 2002k:62106**
Matias, Catherine *see* **Douc, Randal, 2002e:62081**
Mikhaĭlishin, V. Yu. *see* **Zabolotnīĭ, O. V. et al., 2002b:62097**
Mourid, Tahar *see* **Benyelles, Wafaa, 2002e:62080**
Poix, Jérôme (*with* Solev, Valentin N.) Estimation linéaire sans biais pour des modèles de régression avec bruit stationnaire. (English and French summaries) [Linear unbiased estimation for regression models with stationary noise] **2002d:62058**
Prakasa Rao, B. L. S. (*with* Dewan, Isha) Associated sequences and related inference problems. (English summary)
Roussignol, Michel *see* **Francq, Christian et al., 2002e:62082**
Solev, Valentin N. *see* **Poix, Jérôme, 2002d:62058**
Sørensen, Helle Discretely observed diffusions: approximation of the continuous-time score function. (English summary) **2002e:62083**
Tieng, Quang *see* **Gao, Jiti et al., 2002j:62111**
Voĭna, A. A. (*with* Zhigaĭlo, O. O.) On parametric estimates for Markov systems by partially deformed observations. (Ukrainian. English summary) **2002c:62128**
Yavorskīĭ, I. N. *see* **Zabolotnīĭ, O. V. et al., 2002b:62097**
Zabolotnīĭ, O. V. (*with* Mikhaĭlishin, V. Yu.; Yavorskīĭ, I. N.) The least squares method in the statistical analysis of polyrhythms. (Ukrainian. English summary) **2002b:62097**
Zakoïan, Jean-Michel *see* **Francq, Christian et al., 2002e:62082**
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62M15 Spectral analysis

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65–03 Historical (must also be assigned at least one classification number from Section 01)

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65–04 Explicit machine computation and programs (not the theory of computation or programming)

Barker, V. A. (*with* Blackford, L. S.; Dongarra, Jack; Du Croz, J.; Hammarling, S.; Marinova, M.; Waśniewski, J.; Yalamov, Plamen Y.) ★ LAPACK95 users' guide. (English summary)
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65–06 Proceedings, conferences, collections, etc.

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(Babuška, Ivo) *see* **Mathematical modeling and numerical simulation in continuum mechanics, 2002m:65002**
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(Balla, Katalin) *see* **Numerical methods and computational mechanics**
(Bartholomew-Biggs, Michael) *see* **Numerical analysis 2000**
(de Berg, Mark) *see* **Symposium: Computational Geometry**
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(Bieri, H.) *see* **Geometric modelling, 2002g:65005**
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(Galántai, Aurél) *see* **Numerical methods and computational mechanics**
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(Karniadakis, George E.) *see* **Discontinuous Galerkin methods, 2002b:65004**
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65C35 Stochastic particle methods [see also 82C80]

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65C40 Computational Markov chains

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65C50 Other computational problems in probability

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Chen, Huifen (*with* Chen, Hungshen) A heuristic algorithm for stochastic root finding. (English summary) **2002d:65011**
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Chorin, Alexandre J. (*with* Hald, Ole H.; Kupferman, Raz) Non-Markovian optimal prediction. (English summary) **2002a:65016**
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65C60 Computational problems in statistics

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Bell, Bradley M. Approximating the marginal likelihood estimate for models with random parameters. (English summary) **2002c:65016**
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Ji, Jun (*with* Kicey, C.) An efficient method for l^∞ regression. (English summary)
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Monahan, John F. ★ Numerical methods of statistics. (English summary) **2002a:65002**
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Pötzelberger, Klaus (*with* Strasser, Helmut) Clustering and quantization by MSP-partitions. (English summary) **2002k:62084**
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65C99 None of the above, but in this section

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65Dxx Numerical approximation and computational geometry (primarily algorithms) {For theory, see 41–XX and 68Uxx.}

65D05 Interpolation

Abbasbandy, S. Interpolation of fuzzy data by complete splines. (English summary) **2002e:65019**
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65D15 Algorithms for functional approximation

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65Gxx Error analysis and interval analysis

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65G50 Roundoff error

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65Jxx Numerical analysis in abstract spaces

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65Kxx Mathematical programming, optimization and variational techniques

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65L15 Eigenvalue problems

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65L20 Stability and convergence of numerical methods

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65N55 Multigrid methods; domain decomposition

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65Y99 None of the above, but in this section

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65Z05 Applications to physics

Alaie, A. *see* **Gladkoff, S. et al., 2002j:65142**
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Katsaounis, Theodoros (*with* Kossioris, G. T.; Makrakis, G. N.) Computation of high frequency fields near caustics. (English summary) **2002a:78016**
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68–XX Computer science {For papers involving machine computations and programs in a specific mathematical area, see Section –04 in that area.}

68–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

(Abramsky, Samson) *see* **Handbook: Logic in computer science, 2002d:68001**
(Bergstra, Jan A.) *see* **Handbook: Process algebra, 2002d:68002**
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68–01 Instructional exposition (textbooks, tutorial papers, etc.)

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Cormen, Thomas H. (*with* Leiserson, Charles E.; Rivest, Ronald L.; Stein, Clifford) ★ Introduction to algorithms. (English summary) **2002e:68001**
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Ginat, David Loop invariants, exploration of regularities, and mathematical games. (English summary)
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Nielson, Flemming (*with* Nielson, Hanne Riis; Hankin, Chris) ★ Principles of program analysis. (English summary) **2002c:68001**
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Resta, G. *see* **Bernasconi, Anna et al., 2002a:68001**
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Tennent, R. D. ★ Specifying software. (English summary)
Witt, Kurt-Ulrich ★ Algebraische Grundlagen der Informatik. (German. German summary) [Algebraic foundations of information science] **2002g:68003**

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Bang-Jensen, Jørgen (*with* Gutin, Gregory) ★ Digraphs. (English summary) **2002e:05002**
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Cerioli, Márcia R. *see* **Fernandes, Cristina G. et al., 2002g:68164**
Döpp, Klemens ★ Berechenbarkeit und Unlösbarkeit. (German. German summary) [Computability and unsolvability] **2002e:03001**
Feofiloff, Paulo *see* **Fernandes, Cristina G. et al., 2002g:68164**
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68–02 Research exposition (monographs, survey articles)

Chazelle, Bernard ★ The discrepancy method. (English summary) **2002c:68002**
Cipolla, Roberto (*with* Giblin, Peter) ★ Visual motion of curves and surfaces. (English summary) **2002a:68002**
Clavel, Manuel ★ Reflection in rewriting logic. (English summary) **2002e:68002**
Darte, Alain (*with* Robert, Yves; Vivien, Frédéric) ★ Scheduling and automatic parallelization. (English summary) **2002m:68001**
(Davis, Larry S.) *see* **Foundations of image understanding, 2002d:68003**
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Baldi, Pierre (*with* Brunak, Søren) ★ Bioinformatics. (English summary) **2002m:92001**
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de Boer, Frank S. *see* **de Roever, Willem-Paul et al., 2002i:68078**
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Calude, Cristian S. (*with* Păun, Gheorghe) ★ Computing with cells and atoms. (English summary) **2002e:68020**
Creignou, Nadia (*with* Khanna, Sanjeev; Sudan, Madhu) ★ Complexity classifications of Boolean constraint satisfaction problems. (English summary) **2002e:68029**
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Franssen, Michael Gerardus Johannes ★ Cocktail: a tool for deriving correct programs. (English and Dutch summaries) **2002b:68054**
Hannemann, Ulrich *see* **de Roever, Willem-Paul et al., 2002i:68078**
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(Jain, Lakhmi C.) *see* **Computational intelligence in games, 2002b:68089**
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Computational intelligence in games ★ Computational intelligence in games. **2002b:68089**
Current trends in theoretical computer science ★ Current trends in theoretical computer science. **2002k:68001**

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Brunori, Alberto *see* **Laita, Luis M. et al., 2002m:68003**
Davis, Martin ★ The universal computer. (English summary) **2002h:68003**
Kuich, Werner Forty years of formal power series in automata theory. (*see* **2002k:68008**)
Laita, Luis M. (*with* de Ledesma, Luis; Roanes-Lozano, Eugenio; Brunori, Alberto) George Boole, a forerunner of symbolic computation. (English summary) **2002m:68003**
de Ledesma, Luis *see* **Laita, Luis M. et al., 2002m:68003**
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Traub, Joseph F. Computing: yesterday, today, and tomorrow.

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Ensmenger, Nathan L. The "question of professionalism" in the computer fields. (English summary) **2002i:01028**
Haffner, Peter Ein ganz normales genie. (German summary) [A perfectly normal genius]
Hopcroft, John Automata theory: its past and future. (English summary) (*see* **2002k:68008**)
Knuth, Donald E. All questions answered. (English summary)
— *see also* **Haffner, Peter**
Norberg, Arthur L. A perspective on the history of the Charles Babbage Institute and the Charles Babbage Foundation. (English summary) **2002i:01027**
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Knuth, Donald *see* Haffner, Peter

68–06 Proceedings, conferences, collections, etc.

(Aagaard, Mark) *see* Theorem proving in higher order logics, 2002h:68007
(Abramsky, Samson) *see* Typed lambda calculi and applications, 2002k:68012
(Aceto, Luca) *see* Special Issue: Process algebra
(Agarwal, Pankaj K.) *see* ACM Symposium: Computational Geometry
(de Alfaro, Luca) *see* Process algebra and probabilistic methods, 2002m:68013
(Alferes, José Júlio) *see* Progress in artificial intelligence, 2002c:68014
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(Antoniou, Ioannis E.) *see* Unconventional models of computation, 2002d:68020
(Arimura, Hiroki) *see* Algorithmic learning theory, 2002c:68008
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(Backhouse, Roland) *see* Mathematics of program construction, 2002c:68013 *and* Mathematics of program construction
(Baeten, Jos C. M.) *see* CONCUR'99: concurrency theory, 2002g:68004
(Barahona, Pedro) *see* Progress in artificial intelligence, 2002c:68014
(Barringer, Howard) *see* Advances in temporal logic, 2002m:68005
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(Bern, Marshall) *see* Combinatorial curves and surfaces
(Berry, Michael W.) *see* Computational information retrieval, 2002d:68006
(Bertot, Yves) *see* Theorem proving in higher order logics, 2002c:68016
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(Brandes, Ulrik) *see* Graph-theoretic concepts in computer science, 2002d:68014
(Brewka, Gerhard) *see* Logics in artificial intelligence, 2002h:68006
(Brooks, Mike) *see* AI 2001: Advances in artificial intelligence, 2002m:68004
(Bruce, Kim B.) *see* FOOL V *and* FOOL VI
(Bruckstein, Alfred M.) *see* Ant robotics, 2002b:68001
(Calude, Cristian S.) *see* Unconventional models of computation, 2002d:68020
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(Cavalcanti, Marcos) *see* Formal aspects of context, 2002k:68007
(Champarnaud, Jean-Marc) *see* Automata implementation, 2002a:68004 *and* Implementing automata
(Chung, Fan Rong K.) *see* Special Issue: Internet algorithms
(Ciobanu, Gabriel) *see* Fundamentals of computation theory, 2002d:68011
(Clark, Robert G.) *see* Implementation of quantum computation
(Clote, Peter G.) *see* Computer science logic, 2002d:68008
(Cohen, Laurent D.) *see* Mathematics and image analysis
(Comon, Hubert) *see* Constraints in computational logics, 2002k:68006
(Corbett, Dan) *see* AI 2001: Advances in artificial intelligence, 2002m:68004
(Cordón, Oscar) *see* Recent advances in genetic fuzzy systems, 2002b:68008
(Corradini, Andrea) *see* Theory and applications of graph transformations
(Cortesi, Agostino) *see* Static analysis, 2002c:68015
(Cussens, James) *see* Inductive logic programming, 2002c:68011
(Daelemans, Walter) *see* Computational linguistics in the Netherlands
(Dass, Bal Kishan) *see* Discrete mathematics and allied topics
(Davies, Jim) *see* FM'99—Formal methods, 2002d:68009 *and* 2002d:68010
(Desharnais, Jules) *see* Relational methods in computer science
(Dezani-Ciancaglini, Mariangiola) *see* Theories of types and proofs
(Dinneen, Michael J.) *see* Unconventional models of computation, 2002d:68020
(Dixon, Clare) *see* Temporal representation and reasoning, 2002a:68006
(Donald, Bruce Randall) *see* Algorithmic and computational robotics: new directions, 2002a:68003
(Dowek, Gilles) *see* Theorem proving in higher order logics, 2002c:68016
(Du, Ding-Zhu) *see* Computing and combinatorics, 2002e:68004
(Dubois, Olivier) *see* Phase transitions in combinatorial problems
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(Egg, Markus) *see* Special Issue: Underspecification
(Ehrig, Hartmut) *see* Theory and applications of graph transformations *and* Applications of graph transformations
(Eiben, A. E.) *see* Special Issue: Evolutionary computing
(Eidenbenz, Stephan) *see* Graph-theoretic concepts in computer science, 2002c:68010
(Engels, Gregor) *see* Applications of graph transformations
(Ersbøll, Bjarne) *see* Conference: Image Analysis
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(et al.) *see* Applications of evolutionary computing
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(Filé, Gilberto) *see* Static analysis, 2002c:68015
(Finger, Marcelo) *see* Temporal representation and reasoning, 2002a:68006
(Fisher, Michael D.) *see* Temporal representation and reasoning, 2002a:68006 *and* Advances in temporal logic, 2002m:68005
(Flach, Peter A.) *see* Abduction and induction, 2002k:68003
(Florian, Michael) *see* Special Issue: Applications of parallel computing in transportation
(Flum, Jörg) *see* Computer science logic, 2002b:68003
(Fokkink, Willem Jan) *see* Special Issue: Process algebra
(Foo, Norman Y.) *see* Advanced topics in artificial intelligence, 2002c:68005
(Frank, Ian) *see* Computers and games, 2002m:68008
(Frappier, Marc) *see* Relational methods in computer science
(Freivalds, Rūsiņš) *see* Communication, molecular computing and randomized algorithms
(Frisch, Alan) *see* Inductive logic programming, 2002c:68011
(Gabbay, Dov M.) *see* Advances in temporal logic, 2002m:68005
(Ganzinger, Harald) *see* Logic for programming and automated reasoning, 2002c:68012
(Gelbukh, Alexander) *see* Computational linguistics and intelligent text processing, 2002k:68005
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(Gent, Ian P.) *see* Satisfiability in the year 2000
(Giesl, Jürgen) *see* Termination
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(Goodrich, Michael T.) *see* Internet algorithmics
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(Goutsias, John) *see* Mathematical morphology, 2002b:68006
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(Grzymala-Busse, Jerzy) *see* Rough sets and their applications
(Guessarian, Irène) *see* Fixed points in computer science
(Gurevich, Yuri) *see* Abstract state machines, 2002c:68004
(de Guzmán, Inma P.) *see* Logics in artificial intelligence, 2002h:68006
(Hariharan, Ramesh) *see* FST TCS 2001: Foundations of software technology and theoretical computer science, 2002m:68009
(Harrison, John Robert) *see* Theorem proving in higher order logics, 2002h:68007
(Hatcliff, John) *see* Partial evaluation
(Haveraaen, Magne) *see* Workshop: Programming Theory
(Heijmans, Henk J. A. M.) *see* Mathematical morphology, 2002b:68006
(Heipcke, Susanne) *see* Solving constraint problems with hybrid algorithms
(Herrera, Francisco) *see* Recent advances in genetic fuzzy systems, 2002b:68008 *and* Computing with words: foundations and applications
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(Hirschowitz, André) *see* Theorem proving in higher order logics, 2002c:68016
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(Honsell, Furio) *see* Foundations of software science and computation structures, 2002j:68002
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(Jain, Sanjay[1]) *see* Algorithmic learning theory, 2002c:68008
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(Jaoua, Ali) *see* Relational methods in computer science
(Jebelean, Tudor) *see* Special Issue: Calculemus-99: Integrating computation and deduction
(Johansen, Peter) *see* Conference: Image Analysis
(Jürgensen, Helmut) *see* Workshop: Descriptional Complexity of Automata, Grammars and Related Structures
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(Kapoor, Sanjiv) *see* FST TCS 2000: Foundations of software technology and theoretical computer science, 2002c:68009
(Katz, Matthew J.) *see* Workshop: Computational Geometry
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— ★ 3rd Workshop on Algorithm Engineering.
— ★ Logic based program synthesis and transformation. **2002j:68003**
London, ON ★ A half-century of automata theory. **2002k:68008**
— ★ Implementation and application of automata. **2002m:68010**
— ★ {2nd Workshop on Descriptional Complexity of Automata, Grammars and Related Structures}.
— ★ {Fifth International Conference on Implementation and Application of Automata}.
Lyngby ★ {Scandinavian Conference on Image Analysis}.
Machines, computations, and universality ★ Machines, computations, and universality. **2002k:68009**
Madrid ★ Computer science logic. **2002b:68003**
— ★ Artificial intelligence and symbolic computation. **2002i:68001**
— ★ Computing with words: foundations and applications.
Málaga ★ Logics in artificial intelligence. **2002h:68006**
Manchester ★ Advances in temporal logic. **2002m:68005**
Mariánské Lázně ★ Mathematical foundations of computer science 2001. **2002m:68012**
Mathematical analysis of algorithms ★ Mathematical analysis of algorithms.
Mathematical foundations of computer science ★ Mathematical foundations of computer science 2000. **2002b:68005**
— ★ Mathematical foundations of computer science 2001. **2002m:68012**
Mathematical morphology ★ Mathematical morphology. **2002b:68006**
Mathematics and image analysis ★ Mathematics and image analysis 2000.
Mathematics of program construction ★ Mathematics of program construction. **2002c:68013**
— ★ Mathematics of program construction (MPC 2000).
Mexico City ★ Computational linguistics and intelligent text processing. **2002k:68005**
Mont-Saint-Aignan ★ Implementing automata.
Monte Verità ★ Abstract state machines. **2002c:68004**
Munich ★ Domains.
New Delhi ★ FST TCS 2000: Foundations of software technology and theoretical computer science. **2002c:68009**
Nice ★ Theorem proving in higher order logics. **2002c:68016**
— ★ Concurrency theory.
On commonsense reasoning ★ On commonsense reasoning. II.
On-line algorithms ★ On-line algorithms.
Orlando, FL ★ Temporal representation and reasoning. **2002a:68006**
Ottawa, ON ★ Advances in artificial intelligence. **2002k:68004**
Otzenhausen ★ Algorithmic learning theory.
Palma de Mallorca ★ {First EUSFLAT Conference/Ninth Spanish Congress on Fuzzy Logic and Technology}.
Palo Alto, CA ★ Special issue on FOCS 98.
— ★ Special issue on COLT 2000.
Paris ★ Mathematics and image analysis 2000.
— ★ Algorithmic aspects of functional programming languages.
— ★ Fixed points in computer science 2000.
— ★ Static analysis.
Partial evaluation ★ Partial evaluation.
Partial knowledge and uncertainty: independence, conditioning, inference ★ Partial knowledge and uncertainty: independence, conditioning, inference.
Phase transitions in combinatorial problems ★ Phase transitions in combinatorial problems.
Phuket ★ Advances in computing science—ASIAN'99. **2002c:68007**
Ponte de Lima ★ Mathematics of program construction. **2002c:68013**
— ★ Mathematics of program construction (MPC 2000).
Portland, OR ★ Theorem proving in higher order logics. **2002h:68007**
— ★ Special issue on STOC 2000.
Princeton, NJ ★ Average-case analysis of algorithms.
Proceedings:
  Symposium on Symbolic and Algebraic Computation ★ Proceedings of the 2000 International Symposium on Symbolic and Algebraic Computation. **2002b:68007**
Process algebra and probabilistic methods ★ Process algebra and probabilistic methods. **2002m:68013**
Program algebra ★ Program algebra.
Progress in artificial intelligence ★ Progress in artificial intelligence. **2002c:68014**
Quo vadis computational intelligence? ★ Quo vadis computational intelligence? **2002d:68016**
Raleigh, NC ★ Computational information retrieval. **2002d:68006**
Recent advances in genetic fuzzy systems ★ Recent advances in genetic fuzzy systems. **2002b:68008**
Relational methods for computer science applications ★ Relational methods for computer science applications. **2002d:68017**
Relational methods in computer science ★ Relational methods in computer science.
Representations of uncertainty ★ Representations of uncertainty. **2002i:68002**
— ★ Representations of uncertainty.
Reunion Island ★ Logic for programming and automated reasoning. **2002d:68015**
Rewriting techniques and applications ★ Rewriting techniques and applications. **2002k:68010**
Rio de Janeiro ★ Formal aspects of context. **2002k:68007**
Rome ★ Partial knowledge and uncertainty: independence, conditioning, inference.
Rouen ★ Automata implementation. **2002a:68004**
— ★ WORDS.
Rough set methods and applications ★ Rough set methods and applications. **2002d:68018**
Rough sets and their applications ★ Rough sets and their applications.
Saarbrücken ★ Approximation algorithms for combinatorial optimization. **2002b:68002**
— ★ Algorithms—ESA 2000. **2002d:68004**
San Antonio, TX ★ FOOL VI.
San Diego, CA ★ FOOL V.
San-Malo ★ ACM Symposium on Parallel Algorithms and Architectures.
Satisfiability in the year 2000 ★ Satisfiability in the year 2000.
Scheduling: theory and applications ★ Scheduling: theory and applications. Part 1.
— ★ Scheduling: theory and applications. Part 2.
Schloß Dagstuhl ★ Termination.
— ★ Graph algorithms and applications.
Sevilla ★ 10th Spanish Congress on Fuzzy Logic and Technology.
Solving constraint problems with hybrid algorithms ★ Solving constraint problems with hybrid algorithms.
Special Issue:
  Algorithmic foundations of communication networks ★ Special issue on algorithmic foundations of communication networks.
  Applications of parallel computing in transportation ★ Special issue: Applications of parallel computing in transportation.
  Calculemus-99: Integrating computation and deduction ★ Special issue on Calculemus-99: Integrating computation and deduction.
  COLT 2000 ★ Special issue on COLT 2000.
  Complexity ★ Special issue: Complexity 2000.
  Evolutionary computing ★ Special issue on evolutionary computing.
  FOCS 98 ★ Special issue on FOCS 98.
  Internet algorithms ★ Special issue on internet algorithms.
  Process algebra ★ Special issue on process algebra.
  STOC 2000 ★ Special issue on STOC 2000.
  Underspecification ★ Special issue on underspecification.
St. Andrews ★ Proceedings of the 2000 International Symposium on Symbolic and Algebraic Computation. **2002b:68007**
STACS 2001 ★ STACS 2001. **2002k:68011**
State of the art in computational intelligence ★ The state of the art in computational intelligence. **2002d:68019**
Static analysis ★ Static analysis. **2002c:68015**
— ★ Static analysis.
Štiřín Castle ★ Graph drawing. **2002d:68013**
Strasbourg ★ Inductive logic programming. **2002m:68011**
Sydney ★ Advanced topics in artificial intelligence. **2002c:68005**
— ★ Algorithmic learning theory. **2002c:68008**
— ★ Computing and combinatorics. **2002e:68004**
— ★ Implementation of quantum computation.
Symposium:
  Adaptive Systems ★ Evolutionary computation & probabilistic graphical models. **2002a:68005**
  Artifical Intelligence ★ Advances in artificial intelligence. **2002c:68006**
  Computational Intelligence ★ The state of the art in computational intelligence. **2002d:68019**
  Foundations of Information and Knowledge Systems ★ Representations of uncertainty. **2002i:68002**
  Functional and Logic Programming ★ 4th Fuji International Symposium on Functional and Logic Programming.
  — ★ Fifth International Symposium on Functional and Logic Programming.
  Mathematical Foundations of Computer Science ★ Communication, molecular computing and randomized algorithms.
  Software Engineering ★ International Software Engineering Symposium 2001. **2002b:68009**
  Theoretical Aspects of Computer Science ★ STACS 2001. **2002k:68011**
Szeged ★ {2nd Conference for PhD Students in Computer Science}.
Taipei ★ Algorithms and computation. **2002d:68005**
— ★ Approximate reasoning with words.
Tbilisi ★ Logic for programming and automated reasoning. **2002c:68012**
Temporal representation and reasoning ★ Temporal representation and reasoning. **2002a:68006**
Termination ★ Termination.
Theorem proving in higher order logics ★ Theorem proving in higher order logics. **2002c:68016**
— ★ Theorem proving in higher order logics. **2002h:68007**
Theories of types and proofs ★ Theories of types and proofs.
Theory and applications of graph transformations ★ Theory and applications of graph transformations.
Tilburg ★ Computational linguistics in the Netherlands 2000.
Tokyo ★ Theories of types and proofs.
— ★ Fifth International Symposium on Functional and Logic Programming.
Toulouse ★ FM'99—Formal methods. Vol. I. **2002d:68009**
— ★ FM'99—Formal methods. Vol. II. **2002d:68010**
Trieste ★ Phase transitions in combinatorial problems.
Tsukuba ★ Functional and logic programming. **2002e:68005**
— ★ 4th Fuji International Symposium on Functional and Logic Programming.

Typed lambda calculi and applications ★ Typed lambda calculi and applications. **2002k:68012**
Udine ★ On-line algorithms.
Uncertainty frameworks in nonmonotonic reasoning ★ Uncertainty frameworks in nonmonotonic reasoning.
Unconventional models of computation ★ Unconventional models of computation, UMC'2K. **2002d:68020**
University Park, PA ★ CONCUR 2000—Concurrency theory. **2002h:68004**
Uppsala ★ Eleventh Nordic Workshop on Programming Theory.
Utrecht ★ Rewriting techniques and applications. **2002k:68010**
Valcartier, QC ★ Relational methods in computer science.
Venice ★ Static analysis. **2002c:68015**
Volume and surface triangulations ★ Volume and surface triangulations.
Where mathematics, computer science, linguistics and biology meet ★ Where mathematics, computer science, linguistics and biology meet. **2002k:68013**
WORDS ★ WORDS.
Workshop:
Algorithm Engineering ★ 3rd Workshop on Algorithm Engineering.
Algorithmic Aspects of Advanced Programming Languages ★ Algorithmic aspects of functional programming languages.
Algorithmic Foundations of Robotics ★ Algorithmic and computational robotics: new directions. **2002a:68003**
Algorithmic Issues in Communication Networks ★ Special issue on algorithmic foundations of communication networks.
Computational Geometry ★ Sixteenth European Workshop on Computational Geometry.
Descriptional Complexity of Automata, Grammars and Related Structures ★ {2nd Workshop on Descriptional Complexity of Automata, Grammars and Related Structures}.
Evolutionary Aeronautics ★ Applications of evolutionary computing.
Evolutionary Computation in Combinatorial Optimization ★ Applications of evolutionary computing.
Evolutionary Computation in Image Analysis and Signal Processing ★ Applications of evolutionary computing.
Evolutionary Learning ★ Applications of evolutionary computing.
Evolutionary Scheduling and Timetabling ★ Applications of evolutionary computing.
Foundations of Object-Oriented Languages ★ FOOL V.
— ★ FOOL VI.
Graph Transformation Systems ★ Applications of graph transformations (GRATRA 2000).
Implementing Automata ★ Automata implementation. **2002a:68004**
Nonmonotonic Reasoning ★ Uncertainty frameworks in nonmonotonic reasoning.
Probabilistic Methods in Verification ★ Process algebra and probabilistic methods. **2002m:68013**
Programming Theory ★ Eleventh Nordic Workshop on Programming Theory.
— ★ {Twelfth Nordic Workshop on Programming Theory}.
Project ModelAge ★ Formal models of agents. **2002b:68004**
Wuhan ★ International Software Engineering Symposium 2001. **2002b:68009**

Items with secondary classifications in 68–06

(Abramsky, Samson) *see* **Handbook: Logic in computer science, 2002d:68001**
(Altenkirch, Thorsten) *see* **Types for proofs and programs, 2002c:03005**
(Amestoy, Patrick) *see* **Euro-Par'99: Parallel processing, 2002c:65005**
(Bekakos, M. P.) *see* **Computational methods and neural networks, 2002d:68095**
(Berger, Philippe) *see* **Euro-Par'99: Parallel processing, 2002c:65005**
(Bergstra, Jan A.) *see* **Handbook: Process algebra, 2002d:68002**
(Bertrand, G.) *see* **Discrete geometry for computer imagery**
(Blanck, Jens) *see* **Computability and complexity in analysis, 2002j:03004**
(Brattka, Vasco) *see* **Computability and complexity in analysis, 2002j:03004**
(Chang, Gerard J.) *see* **Combinatorics and computer science**
(Crapo, Henry) *see* **Algebraic combinatorics and computer science, 2002c:00038**
(Curien, P.-L.) *see* **Selected papers in honour of Maurice Nivat**
(Davis, Larry S.) *see* **Foundations of image understanding, 2002d:68003**
(Daydé, Michel) *see* **Euro-Par'99: Parallel processing, 2002c:65005**
(Dekker, Paul) *see* **Logic and games**
(Deza, Michel-Marie) *see* **Combinatorics and computer science**
(Dieng, Rose) *see* **Computational conflicts, 2002e:68130**
(Ding, Cun Sheng) *see* **Sequences and their applications, 2002a:00024**
(Di Nola, Antonio) *see* **Lectures on soft computing and fuzzy logic, 2002e:03004**
(Duff, Iain S.) *see* **Euro-Par'99: Parallel processing, 2002c:65005**
(Frayssé, Valérie) *see* **Euro-Par'99: Parallel processing, 2002c:65005**
(Gabbay, Dov M.) *see* **Frontiers of combining systems, 2002d:03003** *and* **Handbook: Logic in computer science, 2002d:68001**
(Gao, Xiao-Shan) *see* **Mathematics mechanization and applications, 2002b:68124**
(Gerla, Giangiacomo) *see* **Lectures on soft computing and fuzzy logic, 2002e:03004**
(Giraud, Luc) *see* **Euro-Par'99: Parallel processing, 2002c:65005**
(Goles Ch., Eric) *see* **Complex systems, 2002j:37002**
(Helleseth, Tor) *see* **Sequences and their applications, 2002a:00024**
(Herroelen, Willy) *see* **Project scheduling**
(Hertling, Peter H.) *see* **Computability and complexity in analysis, 2002j:03004**
(Jürgensen, Helmut) *see* **Advances and trends in automata and formal languages**
(Kamareddine, Fairouz) *see* **Type and set theoretical foundations of computation**
(Kirchner, Hélène) *see* **Frontiers of combining systems, 2002i:03005**
(Knuth, Donald E.) *see* **Analysis of algorithms**
(Lupanov, O. B.) *see* **Mathematical problems in cybernetics, 2002b:00023** *and* **2002b:00024**
(Maibaum, T. S. E.) *see* **Handbook: Logic in computer science, 2002d:68001**
(Malgouyres, R.) *see* **Discrete geometry for computer imagery**
(Manoussakis, Yannis) *see* **Combinatorics and computer science**
(Martínez, Servet) *see* **Complex systems, 2002j:37002**
(Müller, Heinz Jürgen) *see* **Computational conflicts, 2002e:68130**
(Naraschewski, Wolfgang) *see* **Types for proofs and programs, 2002c:03005**
(Niederreiter, Harald) *see* **Sequences and their applications, 2002a:00024**
(Nivat, Maurice) *see* **Selected papers in honour of Maurice Nivat**
(Pauly, Marc[2]) *see* **Logic and games**
(Păun, Gheorghe) *see* **Current trends in theoretical computer science, 2002k:68001**
(Ponse, Alban) *see* **Handbook: Process algebra, 2002d:68002**
(Prodinger, Helmut) *see* **Analysis of algorithms**
(Reus, Bernhard) *see* **Types for proofs and programs, 2002c:03005**
(de Rijke, Maarten) *see* **Frontiers of combining systems, 2002d:03003**
(Ringeissen, Christophe) *see* **Frontiers of combining systems, 2002i:03005**
(Rota, Gian-Carlo) *see* **Algebraic combinatorics and computer science, 2002c:00038**
(Rozenberg, Grzegorz) *see* **Current trends in theoretical computer science, 2002k:68001**
(Ruiz, Daniel) *see* **Euro-Par'99: Parallel processing, 2002c:65005**
(Salomaa, Arto) *see* **Current trends in theoretical computer science, 2002k:68001**
(Sambandham, M.) *see* **Computational methods and neural networks, 2002d:68095**
(Senato, D.) *see* **Algebraic combinatorics and computer science, 2002c:00038**
(Smolka, Scott A.) *see* **Handbook: Process algebra, 2002d:68002**
(Steyaert, J.-M.) *see* **Combinatorics and computer science**
(Szpankowski, Wojciech) *see* **Analysis of algorithms**
(Ulusoy, Gündüz) *see* **Project scheduling**
(Wang, Dong Ming) *see* **Mathematics mechanization and applications, 2002b:68124**
(Yablonskiĭ, Sergeĭ Vsevolodovich) *see* **Mathematical problems in cybernetics, 2002a:00015**

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Advances and trends in automata and formal languages ★ Advances and trends in automata and formal languages.
Algebraic combinatorics and computer science ★ Algebraic combinatorics and computer science. **2002c:00038**
Algebraic semigroups, formal languages and computation ★ Daisûteki hangun, keishiki gengo oyobi keisan riron. [Algebraic semigroups, formal languages and computation] **2002h:00011**
Amsterdam ★ Frontiers of combining systems. 2. **2002d:03003**
Analysis of algorithms ★ Analysis of algorithms.
Combinatorics and computer science ★ Combinatorics and computer science.
Complex systems ★ Complex systems. **2002j:37002**
Computability and complexity in analysis ★ Computability and complexity in analysis. **2002j:03004**
Computational conflicts ★ Computational conflicts. **2002e:68130**
Computational methods and neural networks ★ Computational methods and neural networks. **2002d:68095**
Current trends in theoretical computer science ★ Current trends in theoretical computer science. **2002k:68001**
Discrete geometry for computer imagery ★ Discrete geometry for computer imagery.
Euro-Par'99: Parallel processing ★ Euro-Par'99: Parallel processing. **2002c:65005**
Festschrift:
Jürgensen, Helmut ★ Advances and trends in automata and formal languages.
Knuth, Donald E. ★ Analysis of algorithms.
Nivat, Maurice ★ Selected papers in honour of Maurice Nivat.
Foundations of image understanding ★ Foundations of image understanding. **2002d:68003**
Frontiers of combining systems ★ Frontiers of combining systems. 2. **2002d:03003**
— ★ Frontiers of combining systems. **2002i:03005**
Handbook:
Logic in computer science ★ Handbook of logic in computer science. Vol. 5. **2002d:68001**
Process algebra ★ Handbook of process algebra. **2002d:68002**
Irsee ★ Types for proofs and programs. **2002c:03005**
Krynica Morska ★ Analysis of algorithms.
Lecture Notes in Computer Science ★ Types for proofs and programs. **2002c:03005**
— ★ Euro-Par'99: Parallel processing. **2002c:65005**
— ★ Frontiers of combining systems. **2002i:03005**
— ★ Computability and complexity in analysis. **2002j:03004**
Lectures on soft computing and fuzzy logic ★ Lectures on soft computing and fuzzy logic. **2002e:03004**
Logic and games ★ Logic and games.
Marne-la-Vallée ★ Discrete geometry for computer imagery.
Mathematical problems in cybernetics ★ Математические вопросы кибернетики. Вып. 7. (Russian) [Mathematical problems in cybernetics. No. 7] **2002a:00015**
— ★ Математические вопросы кибернетики. Вып. 8. (Russian) [Mathematical problems in cybernetics. No. 8] **2002b:00023**
— ★ Математические вопросы кибернетики. Вып. 9. (Russian) [Mathematical problems in cybernetics. No. 9] **2002b:00024**
Mathematics mechanization and applications ★ Mathematics mechanization and applications. **2002b:68124**
Memorial Volume:
Rota, Gian-Carlo ★ Algebraic combinatorics and computer science. **2002c:00038**
Nancy ★ Frontiers of combining systems. **2002i:03005**
New developments of the theory of computation and algorithms ★ Keisan riron to arugorizumu no shin tenkai. [New developments of the theory of computation and algorithms] **2002d:00020**
Palaiseau ★ Combinatorics and computer science.
Project scheduling ★ Project scheduling.
Santiago ★ Complex systems. **2002j:37002**
Selected papers in honour of Maurice Nivat ★ Selected papers in honour of Maurice Nivat.
Sequences and their applications ★ Sequences and their applications. **2002a:00024**
Singapore ★ Sequences and their applications. **2002a:00024**
Swansea ★ Computability and complexity in analysis. **2002j:03004**
Toulouse ★ Euro-Par'99: Parallel processing. **2002c:65005**
Type and set theoretical foundations of computation ★ Type and set theoretical foundations of computation.
Types for proofs and programs ★ Types for proofs and programs. **2002c:03005**

68Mxx Computer system organization

Items with secondary classifications in 68Mxx

(Eidenbenz, Stephan) *see* **Workshop: Graph-Theoretic Concepts in Computer Science**
(Neyer, Gabriele) *see* **Workshop: Graph-Theoretic Concepts in Computer Science**
(Widmayer, Peter) *see* **Workshop: Graph-Theoretic Concepts in Computer Science**

Items listed otherwise than by author

Ascona ★ 25th International Workshop on Graph-Theoretic Concepts in Computer Science (WG'99).
Workshop:
Graph-Theoretic Concepts in Computer Science ★ 25th International Workshop on Graph-Theoretic Concepts in Computer Science (WG'99).

68M01 General

Ambaryan, S. L. A division algorithm with unlimited accuracy. (Russian. Armenian summary)

68M07 Mathematical problems of computer architecture

Alekseichuk, A. N. On the complexity of Boolean functions in the class of canonical polarized polynomials. (Russian. English and Ukrainian summaries) **2002e:68006**
Chen, Guo Liang[2] *see* **Xu, Yin Long et al.**
Chen, Long Bin *see* **Xu, Yin Long et al.**
Etiemble, Daniel Computer arithmetic and hardware: "off the shelf" microprocessors versus "custom hardware". (English summary)
Evans, David John[1] (*with* Muslih, O. K.) Parallel merging on the instruction systolic array. (English summary)
Gaujal, Bruno (*with* Jean-Marie, Alain; Mairesse, Jean) Computations of uniform recurrence equations using minimal memory size. (English summary) **2002b:68010**
Han, Shu *see* **Wang, Zuo Jian et al.**
Hiasat, Ahmad A. High-speed and reduced-area modular adder structures for RNS. (English summary)
Ito, Yoshifusa Independence of unscaled basis functions and finite mappings by neural networks. (English summary) **2002j:68004**
Jean-Marie, Alain *see* **Gaujal, Bruno et al., 2002b:68010**
Karafyllidis, I. *see* **Thoidis, I. M. et al.**
Kim, Chang Han (*with* Oh, Sangho; Lim, Jong In) A new hardware architecture for operations in GF(2^n). (English summary)
Lee, Chiou-Yng (*with* Lu, Erl-Huei; Lee, Jau-Yien) Bit-parallel systolic multipliers for GF(2^m) fields defined by all-one and equally spaced polynomials. (English summary) **2002b:68011**
Lee, Jau-Yien *see* **Lee, Chiou-Yng et al., 2002b:68011**
Lim, Jong In *see* **Kim, Chang Han et al.**
Lins, Rafael Dueire An efficient algorithm for cyclic reference counting.
Liu, Ming Ye *see* **Wang, Zuo Jian et al.**
Lu, Erl-Huei *see* **Lee, Chiou-Yng et al., 2002b:68011**
Mairesse, Jean *see* **Gaujal, Bruno et al., 2002b:68010**
Muslih, O. K. *see* **Evans, David John[1]**
Oh, Sangho *see* **Kim, Chang Han et al.**
Recski, András Some polynomially solvable subcases of the detailed routing problem in VLSI design. (English summary) **2002i:68003**
Soudris, D. *see* **Thoidis, I. M. et al.**
Takagi, Kazuyoshi *see* **Takagi, Naofumi et al., 2002a:68007**
Takagi, Naofumi (*with* Yoshiki, Jun-ichi; Takagi, Kazuyoshi) A fast algorithm for multiplicative inversion in GF(2^m) using normal basis. (English summary) **2002a:68007**
(Teng, Shang-Hua) *see* **ACM Symposium: Parallel Algorithms and Architectures**
Thanailakis, A. *see* **Thoidis, I. M. et al.**
Thoidis, I. M. (*with* Soudris, D.; Karafyllidis, I.; Thanailakis, A.) Design of novel multiple-valued logic voltage-mode storage circuits. (English summary)
Wan, Ying Yu *see* **Xu, Yin Long et al.**
Wang, Zuo Jian (*with* Han, Shu; Liu, Ming Ye) Improved algorithm for array address generation. (Chinese. English and Chinese summaries)
Xu, Yin Long (*with* Chen, Guo Liang[2]; Chen, Long Bin; Wan, Ying Yu) A constant time optimal parallel EXOR algorithm on reconfigurable meshes and its applications. (Chinese. English and Chinese summaries)
Yoshiki, Jun-ichi *see* **Takagi, Naofumi et al., 2002a:68007**
Zavads'kiĭ, Ĭ. O. Multiplication on switching elements. (Ukrainian. English and Ukrainian summaries)

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ACM Symposium:
Parallel Algorithms and Architectures ★ ACM Symposium on Parallel Algorithms and Architectures.
Bar Harbor, ME ★ ACM Symposium on Parallel Algorithms and Architectures.

Items with secondary classifications in 68M07

Benini, Marco (*with* Nowotka, Dirk; Pulley, Carl) Computer arithmetic: logic, calculation, and rewriting. (*see* **2002d:03003**)
Bilardi, Gianfranco (*with* Pietracaprina, Andrea; D'Alberto, Paolo) On the space and access complexity of computation DAGs. (English summary) (*see* **2002d:68014**)
Brzozowski, J. A. (*with* Ésik, Zoltán) Hazard algebras (extended abstract). (English summary) (*see* **2002k:68008**)
Chen, Wende (*with* Tao, Yue Gang) Observabilities and reachabilities of nonlinear DEDS and coloring graphs. (English summary) **2002d:93064**
D'Alberto, Paolo *see* **Bilardi, Gianfranco et al., (2002d:68014)**
Davidović, Tatjana (*with* Mladenović, Nenad) Genetic algorithms for multiprocessor scheduling problem with communication delays. (English summary) (*see* **2002g:00020**)
Diamond, Phil *see* **Vladimirov, Igor, 2002m:65043**
Ésik, Zoltán *see* **Brzozowski, J. A., (2002k:68008)**
Jakoby, Andreas (*with* Schindelhauer, Christian) Efficient addition on field programmable gate arrays. (English summary) (*see* **2002m:68009**)
Kantorovich, Leonid Vitaĭevich ★ Selected works. Part II. **2002e:01067**
Kao, Ming-Yang (*with* Wang, Jie[1]) Minimizing roundoff errors of prefix sums via dynamic construction of Huffman trees. (English summary) **2002g:65060**
Krause, Matthias (*with* Lucks, Stefan) On the minimal hardware complexity of pseudorandom function generators (extended abstract). (English summary) (*see* **2002k:68011**)
(Kutateladze, S. S.) *see* **Kantorovich, Leonid Vitaĭevich, 2002e:01067**
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Moshopoulos, Nikos K. (*with* Pekmestzi, K. Z.) A novel systolic architecture for an efficient RSA implementation. (English summary) (*see* **2002k:94003**)
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Pekmestzi, K. Z. *see* **Moshopoulos, Nikos K., (2002k:94003)**
Pietracaprina, Andrea *see* **Bilardi, Gianfranco et al., (2002d:68014)**
Pulley, Carl *see* **Benini, Marco et al., (2002d:03003)**
(Romanovskiĭ, I. V.) *see* **Kantorovich, Leonid Vitaĭevich, 2002e:01067**
Schindelhauer, Christian *see* **Jakoby, Andreas, (2002m:68009)**
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68N19 Other programming techniques (object-oriented, sequential, concurrent, automatic, etc.)

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68N20 Compilers and interpreters

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68N30 Mathematical aspects of software engineering (specification, verification, metrics, requirements, etc.)

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68P05 Data structures

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"Stochastic Boolean satisfiability" Erratum: "Stochastic Boolean satisfiability" [J. Automat. Reason. **27** (2001), no. 3, 251–296; MR 2002h:68206] by M. L. Littman, S. Majercik and T. Pitassi.

68Q15 Complexity classes (hierarchies, relations among complexity classes, etc.) [see also 03D15, 68Q17, 68Q19]

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68Q32 Computational learning theory [see also 68T05]

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68Rxx Discrete mathematics in relation to computer science

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68R05 Combinatorics

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68R10 Graph theory [see also 05Cxx, 90B10, 90B35, 90C35]

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68T15 Theorem proving (deduction, resolution, etc.) [see also 03B35]

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Partial knowledge and uncertainty: independence, conditioning, inference ★ Partial knowledge and uncertainty: independence, conditioning, inference.
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68T45 Machine vision and scene understanding

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68T99 None of the above, but in this section

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68Uxx Computing methodologies and applications

68U01 General

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68U05 Computer graphics; computational geometry [see also 65D18]

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68U15 Text processing; mathematical typography

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68U20 Simulation [see also 65Cxx]

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68U35 Information systems (hypertext navigation, interfaces, decision support, etc.)

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68U99 None of the above, but in this section

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68Wxx Algorithms {For numerical algorithms, see 65–XX; for combinatorics and graph theory, see 68Rxx.}

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68W25 Approximation algorithms

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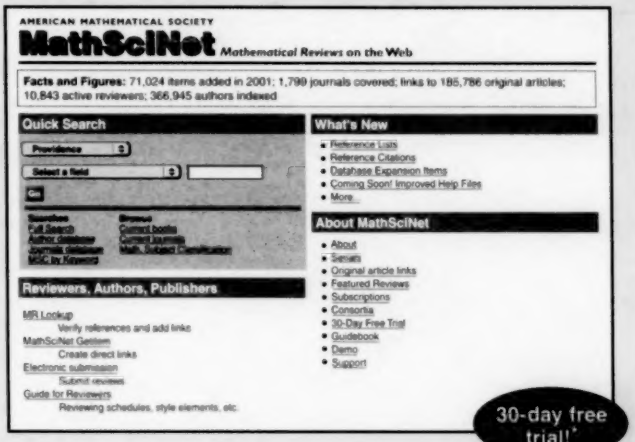
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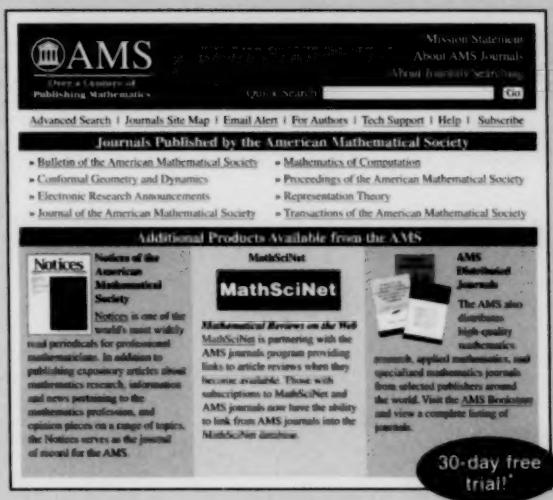
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